

**BEFORE THE ADMINISTRATOR  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

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In the Matter of an Air Pollution Control  
Operating Permit for the Oak Creek Power  
Plant, Located at 11060 S. Chicago, Oak Creek,  
Milwaukee County, Wisconsin,

Source I.D. 241007690

Permit No. 241007690-P10

Proposed by the Wisconsin Department of  
Natural Resources on July 3, 2007.

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PETITION REQUESTING THAT THE ADMINISTRATOR OBJECT TO ISSUANCE OF  
THE PROPOSED REVISED TITLE V OPERATING PERMIT FOR THE OAK CREEK  
POWER PLANT IN OAK CREEK, WISCONSIN

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Pursuant to Clean Air Act § 505(b)(2) and 40 CFR § 70.8(d), the Sierra Club hereby petitions the Administrator (“the Administrator”) of the United States Environmental Protection Agency (“U.S. EPA”) to object to proposed Title V Operating Permit for Wisconsin Electric Power Company’s (“WEPCO”) Oak Creek Power Plant, Permit Number 241007690-P10 (“Permit”). The Permit was proposed to U.S. EPA by the Wisconsin Department of Natural Resources (“DNR”) more than 45 days ago. A copy of the Permit is attached as Exhibit A. Sierra Club provided comments to the DNR on the draft permit and the revised draft permit. A true and accurate copy of Sierra Club’s comments is attached at Exhibit B. DNR responded to Sierra Club’s comments through two memoranda, a copies of which are attached as Exhibit C.

This petition is filed within sixty days following the end of U.S. EPA’s 45-day review period, as required by Clean Air Act (“CAA”) § 505(b)(2). The Administrator must grant or deny this petition within sixty days after it is filed. If the Administrator determines that the Permit does not comply with the requirements of the CAA, or fails to include any “applicable requirement,” he must object to issuance of the permit. 42 U.S.C. § 7661b(b); 40 C.F.R. § 70.8(c)(1) (“The [U.S. EPA] Administrator will object to the issuance of any permit determined by the Administrator not to be in compliance with applicable requirements or requirements of this part.”). “Applicable requirements” include, *inter alia*, any provision of the Wisconsin State Implementation Plan (“SIP”), including Prevention of Significant Deterioration (“PSD”) requirements, any term or

condition of any preconstruction permit, any standard or requirement under Clean Air Act sections 111, 112, 114(a)(3), or 504, acid rain program requirements. 40 C.F.R. § 70.2. Notably, “applicable requirements” include any requirement to obtain a preconstruction permit and comply with New Source Review regulations. *In re Monroe Electric Generating Plant*, Petition No. 6-99-2 at p. 2 (EPA Adm’r 1999).

### **I. The Permit for OCPP Must Include A Compliance Schedule**

Every Title V permit must “assure[] compliance by the source with all applicable requirements.” CAA § 504(a); 40 C.F.R. § 70.1; Wis. Stat. § 285.64(1); Wis. Admin. Code § NR 407.09(4)(b). “Applicable requirements” include State Implementation Plan (“SIP”) requirements and preconstruction requirements, including the requirement to obtain a PSD preconstruction permit and apply best available control technology (“BACT”). 40 C.F.R. § 70.2; Wis. Stat. § 285.64(1); Wis. Admin. Code § NR 400.02(26). If the facility is not in compliance with all applicable requirements at the time of permit issuance, the permit must contain an enforceable schedule to bring the facility into compliance. The U.S. EPA Administrator has described these requirements as follows:

40 C.F.R. § 70.5(c)(8)(iii)(C) and 70.6(c)(3) require that, if a facility is in violation of an applicable requirement and it will not be in compliance at the time of permit issuance, its permit must include a compliance schedule that meets certain criteria. For sources that are not in compliance with applicable requirements at the time of permit issuance, compliance schedules must include ‘a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance.’ 40 C.F.R. § 705(c)(8)(iii)(C).

*In the Matter of Onyx Environmental Services, Order Responding to Petitioners' Request That the Administrator Object to Issuance of a State Operating Permit*, pp. 6-7 (Adm'r Feb. 1, 2006) (hereinafter "*Onyx*").

WEPCO has repeatedly violated, and is in continuing violation, of the PSD and Nonattainment New Source Review requirements in the Clean Air Act at the Oak Creek plant. However, the permit lacks a compliance schedule, including a requirement to apply for a PSD permit and comply with BACT limits. Therefore, the permit is deficient, results in unlawful emissions, and the Administrator must object.

#### **A. The PSD Program.**

The Clean Air Act was passed to protect and enhance the quality of the nation's air so as to promote the public health and welfare and the productive capacity of the United States' population. 42 U.S.C. § 7401(b)(1). Congress intended to "speed up, expand, and intensify the war against air pollution in the United States with a view to assuring that the air we breathe throughout the Nation is wholesome once again." *Wis. Elec. Power Co. v. Reilly*, 893 F.2d 901, 909 (7<sup>th</sup> Cir. 1990) (quoting H.R. Rep. No. 91-1146, at 1 (1970), as reprinted in 1970 U.S.C.C.A.N. 5356, 5356)). As its name implies, the Prevention of Significant Deterioration program in Part C of the Clean Air Act, 42 U.S.C. §§ 7470-7492, creates a program to prevent those areas currently attaining the minimum national air quality standards from deteriorating. The PSD provisions prohibit a major emitting facility from being constructed or modified unless, among other requirements, it: obtains a PSD permit, 42 U.S.C. § 7475(a)(1); has been reviewed



by a permitting agency and through a public hearing, 42 U.S.C. § 7475(a)(2); has demonstrated that it will not cause or contribute to a violation of NAAQS or a “maximum allowable increase” over existing pollution levels (“increment”), 42 U.S.C. § 7475(a)(3); and meets pollution limits based on “best available control technology” (“BACT”), 42 U.S.C. § 7475(a)(4).

Although Congress intended the Clean Air Act to clean up old, polluting facilities, it recognized that it was not economically feasible to retrofit pollution controls on all existing sources. Therefore, Congress “grandfathered” existing facilities, effectively exempting them from compliance with new regulations until they were modified. *Alabama Power v. Costle*, 636 F.2d 323, 400 (D.C. Cir. 1979); *United States v. Murphy Oil USA, Inc.*, 155 F.Supp.2d 1117, 1137 (W.D. Wis. 2001) (citing *WEPCO*, 893 F.2d at 909). This “grandfathering” was intended to be temporary – not “to constitute perpetual immunity” from all standards under the PSD program. *Alabama Power*, 636 F.2d at 400; *WEPCO*, 893 F.2d at 909 (“But Congress did not permanently exempt existing plants from these [PSD] requirements; section 7411(a)(2) provides that existing plants that have been modified are subject to the Clean Air Act programs at issue here.”); *U.S. v. Ohio Edison Co.*, 276 F.Supp. 2d 829, 850 (S.D. Ohio 2003) (Congress did not intend that existing sources be granted perpetual immunity from installing modern pollution controls).

A facility is “modified,” and must comply with PSD permitting and BACT pollution control requirements when it: (1) undergoes a physical change or change in

the method of operation; and (2) the change results in an increase in air pollution. 42 U.S.C. § 7411(a)(4); 42 U.S.C. § 7475(a); 57 Fed. Reg. at 32,316; Wis. Admin. Code § NR 405.02(21); *WEPCO*, 893 F.2d at 907; *Murphy Oil*, 155 F.Supp.2d at 1137; *In re Tennessee Valley Authority*, 9 E.A.D. 357, 388 (EAB 2000) (citing *WEPCo. v. Reilly*, 893 F.2d 901, 907-09 (7th Cir. 1990)).

The term “physical change” is very broad. Congress intended that “any physical change” trigger the PSD program requirement, and intended “any physical change” to have an expansive meaning. *New York v. EPA*, 443 F.3d 880, 885-87 (D.C. Cir. 2006) (holding that Congress’ use of the phrase “any physical change” was intended to apply to the broadest possible category of changes); *New York v. EPA*, 413 F.3d 3, 40-42 (D.C. Cir. 2005); *WEPCO*, 893 F.2d at 908-10; Memorandum from Don R. Clay, USEPA Acting Assistant Administrator for Air and Radiation, to David A. Kee, USEPA Director of Air and Radiation Division, Region 5, Re: Applicability of Prevention of Significant Deterioration (PSD) and New Source Performance Standards (NSPS) Requirements to the Wisconsin Electric Power Company (WEPCO) Port Washington Life Extension Project 3 (September 9, 1988) (“The clear intent of the PSD regulations is to construe the term “physical change” very broadly, to cover virtually any significant alteration to an existing plant.”); *see also* 57 Fed. Reg. 32,314, 32,316 (July 21, 1992) (acknowledging that the broad terms “change” and “modification” “encompass the most mundane activities at an industrial facility (even the repair or replacement of a single leaky pipe, or a change in the way that pipe is utilized.”); *United States v. Cinergy Corp.*, Slip Op. (Order

on Cross-Motions for Summary Judgment Regarding Fair Notice Defense, ED #940), Case No. 1:99-cv-1693-LMS-JMS at 14 (S.D. Indiana June 18, 2007) (“The CAA defines the term ‘modification’ broadly as ‘any physical change... which increases the amount of any air pollutant emitted...” As the Seventh Circuit has noted, the potential reach of this definition is broad and encompasses even the most trivial of activities.” (internal citations omitted)). Each of the projects at the Oak Creek plant described below fall within this broad definition of “physical change.”<sup>1</sup>

To determine if a physical change results in a “significant net emissions increase,” under the Wisconsin SIP, a source’s historical actual emissions are compared to its potential to emit. Wis. Admin. Code §§ NR 405.02(1), (24)(a)1. (2006)<sup>2</sup>; *see also*

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<sup>1</sup> A routine maintenance, repair, or replacement, by itself, is not a modification. However, very few physical changes are routine, and must meet a four-factor test including the nature, extent, purpose, frequency and cost of the work. *WEPCo.*, 893 F.2d at 910 (*quoting* Sept. 9, 1988 Memorandum from Don R. Clay, USEPA, to David A. Kee, “Applicability of Prevention of Significant Deterioration (PSD) and New Source Performance Standards (NSPS) Requirements to the WEPCO Power Company Port Washington Life Extension Project.”). Moreover, [r]outine maintenance, repair, and replacement occurs regularly, involves no permanent improvements, is typically limited in expense, is usually performed in large plants by in-house employees, and is treated for accounting purposes as an expense. In contrast to routine maintenance stand capital improvements which generally involve more expense, are large in scope, often involve outside contractors, involve an increase of value to the unit, are usually not undertaken with regular frequency, and are treated for accounting purposes as capital expenditures on the balance sheet.” *Ohio Edison*, 276 F.Supp. 2d at 834 (citations omitted). Routine maintenance must be interpreted as very narrow. *U.S. v. So. Ind. Gas & Elec. Co.*, 245 F.Supp.2d 994, 1009 (S.D. Ind. 2003) (“Giving the routine maintenance exemption a broad reading could postpone the application of NSR to many facilities, and would flout the Congressional intent evinced by the broad definition of medication.”). None of the modifications addressed in these comments are routine. Moreover, it is WEPCO’s burden to prove the application of the routine maintenance exemption, including providing the basis for such an exemption in its application. 40 C.F.R. § 70.5(c)(6); Wis. Admin. Code § NR 407.05(4)(f). WEPCO has never demonstrated that the routine maintenance exception applies, nor submitted information in support of the exemption in its Title V permit application.

<sup>2</sup> The Wisconsin DNR has adopted changes to the Wisconsin PSD program. However, EPA has not adopted them into the Wisconsin SIP. During the relevant periods here, the applicable PSD regulations were either a delegated federal PSD program under 40 C.F.R. § 52.21 or the 1998 version of Wis. Admin. Code ch. NR 405, as adopted into the Wisconsin SIP. Wisconsin’s PSD program was approved as a

*Puerto Rican Cement Co., Inc. v. U.S. Env'tl. Protection Agency*, 889 F.2d 292, 296 (1<sup>st</sup> Cir. 1989). For an electric generating unit, like the Oak Creek plant at issue here, the source has the option of comparing its historic "actual" emissions to its future projected emissions. 40 C.F.R. § 52.21(b)(3); Wis. Admin. Code § NR 405.02(1)(d). However, this optional "actual-to-projected-actual" test for emission increases is conditional. To use this test, the utility must "maintain[ ] and submit[ ] to the department, on an annual basis for a period of 5 years from the date the unit resumes regular operation, information demonstrating that the physical or operational change did not result in an emissions increase." Wis. Admin. Code § NR 405.02(1)(d). If a utility fails to undertake this recordkeeping and annual reporting to the DNR, it cannot use the actual-to-projected-actual test and the actual-to-potential test applies.

In this case, WEPCO has not conducted the recordkeeping and annual reporting required to allow it to use the actual-to-projected-actual test. Therefore, the actual-to-potential test applies. However, regardless of which test applies, the modifications of the Oak Creek plant triggered PSD requirements. Because each of the modifications was intended to reduce the frequency or duration of forced outages (i.e., replacing a troublesome part), the projected resulting increase in annual operating time resulted in increased emissions. Because the annual increase in emissions exceeded the

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revision to Wisconsin's SIP in 1999. Approval and Promulgation of Implementation Plans; Wisconsin, 64 Fed. Reg. 28,745, 28,746 (May 27, 1999). Prior to June 28, 1999, facilities in Wisconsin were regulated by the PSD regulations adopted in the EPA's federal PSD program – located at 40 C.F.R. § 52.21. *Id.*; see also 43 Fed. Reg. 26,410 (June 19, 1978) (adopting 40 C.F.R. § 52.21 (b) through (w) as applicable to Wisconsin at 40 C.F.R. § 52.2581 (1978)).

“significance” threshold, the modifications were subject to PSD requirements, including the requirement to install BACT. Wis. Admin. Code § NR 405.02(27)(a), Table A (see also 40 C.F.R. § 52.21(b)(2)(I))

**B. USEPA Found Violation of New Source Review At All WEPCO Plants.**

EPA found that WEPCO violated New Source Review (including PSD) requirements of the Clean Air Act and the Wisconsin SIP and filed a lawsuit against WEPCO for these violations. See Complaint, *United States v. Wisconsin Electric*, Case No. 03-C0371 (E.D.Wis., filed April 29, 2003) (attached hereto as Exhibit E). EPA determined that “between 1982 and the present, Wisconsin Electric modified and thereafter operated certain coal-fired electricity generating units without first obtaining a PSD permit authorizing the construction and without installing the best available control technology to control emission of sulfur dioxide, nitrogen oxides, and particulate matter, as required by the Act, applicable federal regulations, and the... Wisconsin SIP[].” *U.S. v. Wisconsin Electric*, Case No. 03-C-0371, Compl. ¶ 2 (Apr. 29, 2003).

Specific to the Oak Creek plant at issue here, EPA determined that:

At various times, Wisconsin Electric commenced construction and operating of major modifications... at its Oak Creek Plant in Wisconsin. These major modifications included, but were not limited to, replacement of economizers, induced draft fans, waterwall tubes, reheaters and superheaters on one or more units at the plant. These modifications resulted in significant net emissions increases, as defined by 40 C.F.R. § 52.21(b)(3)(i), of one or more of the following pollutants: NO<sub>x</sub>, SO<sub>2</sub>, and PM.

Wisconsin Electric violated and continues to violate Section 165(a) of the Act, 42 U.S.C. § 7475(a), and the PSD regulations set forth in 40 C.F.R. § 52.21, as incorporated into the Wisconsin SIP, by, inter alia, undertaking such major modifications at units located at the Oak Creek Plant and operating these modified units at the plant without: (a) obtaining a PSD permit, as required by 40 C.F.R. § 52.21(i) and the Wisconsin SIP; (b) applying best available control technology for NO<sub>x</sub>, SO<sub>2</sub>, and PM, as required by 40 C.F.R. § 52.21(j) and the Wisconsin SIP; (c) demonstrating that construction or modification would not cause or contribute to air pollution in violation of any national and/or Wisconsin ambient air quality standard or any specified incremental amount, as required by 40 C.F.R. § 52.21(m) and the Wisconsin SIP; (d) performing an analysis of the ambient air quality in the area, as required by 40 C.F.R. § 52.21(m) and the Wisconsin SIP; (e) submitting to EPA or Wisconsin all information necessary to conduct the analysis or make the necessary determinations under 40 C.F.R. § 52.21, as required under 40 C.F.R. § 52.21(n); and (f) obtaining the required Wisconsin state permits.

Ex. E ¶¶ 41, 43.

Furthermore, on February 23, 2001, Mr. George Czerniak, Chief of Air Enforcement and Compliance Assurance for EPA Region 5, wrote a memo titled “Potential Major Modifications at Wisconsin Electric Power Company Facilities.” See Exhibit G.<sup>3</sup> The Czerniak memo concluded that:

Preliminary review of Wisconsin Electric Power Company’s (WEPCO) response to an EPA Request for Information issued pursuant to section 114 of the Clean Air Act, indicates that WEPCO may have undertaken several major modifications without appropriate environmental review.

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<sup>3</sup> The Czerniak memo attached as Exhibit G is a copy of the document included as Exhibit 6 to the Declaration of Richard W. Oehler filed in *United States v. Wisconsin Electric Power Co.*, 03-C-0371 (E.D. Wis.) and dated March 11, 2005.

On December 7, 2000, U.S. EPA issued a Request for Information to WECPO concerning modifications at several of their facilities located in Wisconsin and Michigan. On February 16, 2001, WECPO submitted its response to that request. Preliminary review by my staff shows 16 potential major modifications at five WECPO power plants. The documents submitted by WECPO indicate that it spent more than \$95 million dollars on these 16 major projects....

The memo summarizes seven projects at the Oak Creek Power Plant. These projects include:

1. A 1982 replacement of the economizer on Oak Creek #5 at a cost of \$1.6 million dollars and resulting in annual increases of 1,473.47 tons of NOx and 9,501.34 tons of SO2.
2. A 1989 project on Oak Creek #5 that included upgrading the controls, replacing ID and FD fans and components, conversion to direct fire, and replacing major tubing components and structures in the boiler. This project cost \$29,729,984 and resulted in annual increases of 315.90 tons of NOx and 2,038.88 tons of SO2.
3. An uncompleted, likely continuation, of the replacement to the economizer on Oak Creek #5 at a cost of \$3,650,000 and which resulted in an annual increase of 49.12 tons of NOx and 316.75 tons of SO2.
4. A 1989 project on Oak Creek #6 that included upgrades to the controls, replacement of FD and ID fan components, conversion to direct fire, replacement of major components (preheater, HRA, penthouse, waterwalls, reheater, and superheater pendants). This project cost \$37,490,418 and resulted in annual increases of 237.67 tons of NOx and 1,532.58 tons of SO2.
5. Replacement of the Oak Creek #6 economizer at a cost of \$3,650,000 and resulting in annual increases of 22.41 tons of NOx and 144.48 tons of SO2.
6. A 1992 improvement to Oak Creek #7 to replace the economizer at a cost of \$2,990,387 and resulting in annual increases of 66.29 tons of NOx and 170.04 tons of SO2.
7. A 1995 project on Oak Creek #8 to replace the economizer and replace reheat tubing at a cost of \$2,533,271, resulting in annual increases of 266.66 tons of NOx and 662.82 tons of SO2.

Exhibit G.

These findings by EPA conclusively demonstrate non-compliance for purposes of the Title V review process. *See e.g., New York Public Interest Research Group v. Johnson*, 427 F.3d 172, 180 (2<sup>nd</sup> Cir. 2005). The filing of a civil action is EPA's official finding that the OCPP is in violation of PSD preconstruction permitting requirements. *Id.* at 181; 42 U.S.C. § 7413(a)(1)(providing that EPA may file a civil complaint only after finding that the person has violated, or is in violation of an applicable implementation plan...). A failure to require compliance with PSD requirements that were triggered by unpermitted major modifications, and as determined by EPA prior to its Complaint filed against WEPCO, is a deficiency in the Title V permit. *See In re Onyx*, *supra*, p. 8.

**C. OCPP has undergone a number of major modifications that subject the facility to PSD requirements.**

Even if EPA had not identified PSD violations and filed a lawsuit regarding those violations in federal court, the permit record here demonstrates that WEPCO is not in compliance with PSD requirements.

**1. WEPCO's Planned Replacement of High Pressure Turbine Steam Stop and Control Valves is Subject to PSD**

In addition to the violations found by EPA, WEPCO has committed or is committing additional PSD violations. WEPCO filed an application with the Public Service Commission of Wisconsin ("PSCW") on October 21, 2005. In its application, WEPCO sought permission to replace the high-pressure turbine main steam stop and control valves on Units 5 and 6 at a cost of \$14.9 million. *See Exhibit H.* WEPCO's basis for the request was that these parts were regularly causing forced outages of the Units,



causing lost generating capacity. By replacing the steam stop and valves, WEPCO sought to reduce these outages, thereby increasing annual operating hours. Specifically, WEPCO provided the following justification to the PSCW:

*Reason for the Project*

The high-pressure turbine main steam stop and control valves on Units 5 and 6 at Oak Creek are original equipment that was installed in 1959 and 1961 respectively. The equipment has experienced maintenance problems and failures that have affected the availability and operation of the generating units. These failures are the result of a metallurgical process known as "creep" which affects a wide range of metals operated above 1050 degrees Fahrenheit.

The plant has experienced occurrences of the control valves becoming stuck, causing the units to be taken out of service or preventing them from returning to service in order to make repairs. The most serious of these incidents occurred in 2000 and 2003. In both cases the outages to repair the equipment were in excess of two weeks.

Additional major repairs that have required long outages have been related to cracks found in the stop valve bodies. The most extensive repair of this type occurred in 1997, and it required the unit to be out of service for twelve weeks. Since that time, other cracks have occurred and have required outages of two to three weeks to repair. Repairs to these valves are labor-intensive.

Application for Authority: Oak Creek Power Plant- Units 5 and 6; Main Steam Stop and Control Valve Replacement 1 (Oct. 21, 2005) (emphasis added) (attached as Exhibit H).

The forced outages resulting from the replaced equipment exceeded 1,666<sup>4</sup> hours over the 5 years preceding the application to the PSCW. *Id.* at 2. These hours are as follows:

| <u>Year</u> | <u>Unit</u> | <u>Component</u>  | <u>Problem</u>         | <u>Hours</u> |
|-------------|-------------|-------------------|------------------------|--------------|
| 2001        | 6           | Main Stop         | Valves Binding/leakage | 159          |
| 2002        | 6           | Main Stop Valve 2 | Severe leakage         | 510          |
| 2003        | 5           | Cntrl Vlvs 1 & 3  | Would not close        | 374          |
| 2003        | 6           | Main Stop Valve   | Binding/leakage        | 225          |
| 2005        | 5           | Main Stop Valve   | Binding valve          | 24           |
| 2005        | 6           | Main Stop Valve   | Severe leakage         | <u>374</u>   |
| Total       |             |                   |                        | 1666         |

See WEPCO Resp. to PSCW Data Req., p. 5 (attached at Exhibit I); see also Certificate and Order of the Public Service Commission, Docket No. 6630-CE-295 (Exhibit Q). Over five years, WEPCO averaged more than 330 hours of lost operation per year due to the valves and steam stops that it has replaced and plans to replace as part of this project. WEPCO expects additional forced outages until the steam stops and control valves are replaced. *Id.* WEPCO completed the modifications to Unit 6 on July 3, 2007, and expects to have the modifications to Unit 5 done in May, 2008. See Ex. P.

The modifications to Units 5 and 6 will trigger PSD requirements because they are physical changes that result in a significant net emission increase of PM, NO<sub>x</sub>, SO<sub>2</sub>, and other pollutants. OCPP emits approximately 0.44 tons of SO<sub>2</sub> and 0.17 tons of NO<sub>x</sub> per hour from Unit 5; 0.43 tons of SO<sub>2</sub> and 0.17 tons of NO<sub>x</sub> per hour from Unit 6; 0.58 tons of SO<sub>2</sub> and 0.18 tons per hour of NO<sub>x</sub> per hour from Unit 7; and 0.56 tons of

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<sup>4</sup> WEPCO initially estimated 1,674 hours, but later corrected this to 1666 hours. See WEPCO Resp. to PSCW Data Req. (Exhibit I), p. 5.

SO<sub>2</sub> and 0.18 tons of NO<sub>x</sub> per hour from Unit 8. *See* USEPA Clean Air Markets, Unit Emissions Report for South Oak Creek (based on 2004 emissions) (attached as Exhibit J). A modification that is expected to result in only 91 fewer hours of lost generation per year due to forced outages or curtailed operation results in a significant net emission increase of SO<sub>2</sub>, and only 235 hours per year results in a significant net emission increase of NO<sub>x</sub>. Based on WEPCO own statements to the Wisconsin Public Service Commission, WEPCO intends to regain sufficient generating time due to this project to result in a significant net emission increase.

Although WEPCO has the burden to demonstrate that its projects are exempt as Routine Maintenance, Repair and Replacement, and has not done so, it should be noted that the steam stop and control valve replacement project is not routine. WEPCO admits that it has never replaced similar parts on any other unit. *See WEPCO Resp. to PSCW Data Request*, pp. 2-3 (Exhibit I) (WEPCO has not replaced stop or control valves at any other unit); Ex. Q at 3 (“The high-pressure turbine and main steam stop and control valves on Units 5 and 6 at the Oak Creek Power Plant are original equipment that was installed in 1959 and 1961, respectively.”). In fact, WEPCO admits that only one other similar replacement occurred at any plant that WEPCO could find. Ex. I p. 3.

## **2. WEPCO Disclosed Modifications to USEPA in Responses to USEPA’s CAA § 114 Requests for Information.**

In addition to WEPCO’s planned major modification to replace valves and stops on Units 5 and 6, WEPCO undertook a number of historic changes that constitute major

modifications without applying for the required PSD permits. Many of these are included in EPA's findings of violation and civil complaint. Exs. E and G. However, Sierra Club here demonstrates the violations independent of and in addition to EPA's findings.

Beginning in the late 1990s, the United States Environmental Protection Agency ("U.S. EPA") sent WEPCO requests for information pursuant to § 114 of the Clean Air Act. In response to U.S. EPA's requests, WEPCO disclosed the following modifications at OCPP<sup>5</sup>:

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<sup>5</sup> Source: Response by WEPCo to EPA 114 Data Request Question Nos. 3 and 18 (attached as Exhibit K).

| Modification   | Approved Date  | In-Service Date | Approved Amount | Total Expenditure | PSC Approval (If Known) <sup>6</sup>   | Hours of Forced Outage During Baseline Attributable to Part Replaced or Modified (If Known) <sup>7</sup> |
|--|----------------|-----------------|-----------------|-------------------|--|--|
| Replace Economizer Unit 5  | May, 1981      | August, 1982    | 1,680,000       | 1,657,260         |  | > 78.7 <sup>8</sup>  |
| Replace Steam Air Heater Unit 5  | October, 1981  | August, 1982    | 870,000         | 857,852           |  | >105.93 <sup>9</sup>   |
| Replace Reheater Tubing Unit 7   | November, 1985 | January, 1987   | 997,865         | 1,074,141         | PSCW granted a certificate of authority to WEPCO to replace the tubes in the boiler reheat section front wall, front and rear reheat pendant tube assemblies and crossover tubing associated with the Oak Creek Unit 7. <i>See Oak Creek Unit 7 Boiler Reheat Tube Replacement, Case No. 6630-CE-115 (Ltr. Order Apr. 15, 1986).</i> | 594.54   |
| Upgrade controls, replace fans, convert to direct fire, replace boiler penthouse tubing and structure, replace front waterwall tubing (to intermediate | February, 1986 | June, 1989      | 26,847,263      | 29,729,984        |  |  |

<sup>6</sup> Files of the Public Service Commission of Wisconsin (Exhibit L).

<sup>7</sup> Based on GADS data reported by WEPCo. See summary of GADS data at Exhibit M. Full GADS data at Exhibit N.

<sup>8</sup> WEPCo provided incomplete descriptions of cause of forced outage prior to 1982, therefore the number of hours is probably greater.

<sup>9</sup> Id.

|  |                |                               |            |            |  |          |
|--|----------------|-------------------------------|------------|------------|--|----------|
| header) on Unit 5  |                |                               |            |            |  |          |
| Upgrade controls, replace fan, convert to direct fire, replace steam air preheater, replace boiler penthouse tubing and structure, replace waterwall tubing to intermediate header, replace reheater, replace superheater pendants on Unit 6 | February, 1986 | June-July, 1989 <sup>10</sup> | 30,065,802 | 37,490,398 |  | > 1062.3 |
| Replace air preheater tubing on Unit 7   | August, 1988   | December, 1988                | 449,500    | 412,320    |  |          |
| Replace feedwater heater Unit 5  | November, 1986 | July, 1987                    | 326,624    | 329,410    |  |          |
| Replace feedwater heater Unit 8  | June, 1988     | April, 1988                   | 546,000    | 587,788    |  |          |
| Replace feedwater heater Unit 7  | November, 1987 | December, 1988                | 344,153    | 342,463    |  |          |
| Replace air preheater tubing Unit 7  | August, 1988   | December, 1988                | 449,500    | 412,320    |  |          |
| Upgrade turbine governing system Unit 5  | November, 1988 | February, 1991                | 788,877    | 838,973    |  | >3.5     |
| Upgrade turbine governing system Unit 6  | November, 1988 | March, 1990                   | 799,090    | 991,321    |  | > 89.48  |
| Install gas ignition on Units 7 and 8  | July, 1989     | December, 1991                | 305,979    | 354,487    |  |          |

<sup>10</sup> WEPCo's response to data request No. 18 states July, 1988 as the date for replacement of the boiler reheat and superheat front pendants for Unit 6.

|  |                                 |  |           |           |   |          |
|--|---------------------------------|--|-----------|-----------|---|----------|
| Modifications to Steam headers on Units 5 and 6                          | August, 1989                    | December, 1989                           | 2,396,773 | 2,565,594 | Approved: See Application of Wisconsin Electric Power Co. for Authority to Install a Process Steam Header and Steam Distribution System at the Oak Creek Power Plant Located in the City of Oak Creek, Milwaukee County, Case No. 6630-CE-174 (Ltr. Order Nov. 21, 1989). |          |
| Replace Economizer Unit 7  | December, 1990                  | May, 1992                                | 3,020,782 | 2,990,387 | Approved: See Application of Wisconsin Electric Power Co. for Authority to Replace the Economizer Section of the Unit 7 Boiler at Its Oak Creek Power Plant in the City of Oak Creek, Milwaukee County, Case No. 6630-CE-188 (Ltr. Order Apr. 2, 1991).                   | > 59.48  |
| Replace Economizer Unit 8  | September, 1991                 | July, 1995 <sup>11</sup>                 | 2,032,256 | 1,883,202 |   |          |
| Replace Reheat tubing Unit 8   | September, 1991                 | September, 1995                          | 652,062   | 650,069   |   | > 406.89 |
| Replace Economizer Unit 5  | November, 1999                  | April, 2002                              | 3,650,000 |           |   |          |
| Replace Economizer Unit 6  | November, 1999                  | June, 2001                               | 3,650,000 |           |   |          |
| Rewind generator Unit 5  | November, 1997                  | February, 1999                           | 2,182,500 | 2,198,966 |   |          |
| Replacement of Tubing and Tubing Support System for Furnace Wall, Unit 5 | Applied to PSCW on May 19, 1989 | PSCW granted permission in August, 1989. |           |           | See Application by Wisconsin Elec. Power Co. for Authority to Replace the Tubing and Tubing Support System for the Furnace Rear Wall Radiant Superheater Section of Oak Creek Unit 5 Boiler, Milwaukee County, Case No. 6630-CE-166 (Ltr. Order Aug. 3, 1989)             | > 105.65 |

<sup>11</sup> WEPCo's response to Data Request No. 18 stated April, 1995 as the date that the economizer and reheat tube were replaced on Unit 8. This appears to be a discrepancy between the responses to Request 3 and Request 18.

|  |  |   |  |  |   |          |
|--|--|---|--|--|---|----------|
| Replacement of Reheater Tubing at OCPP Unit 5. |  | PSCW granted a certificate of authority to WEPCO on July 22, 1986 |  |  | See Replacement of the Unit 5 Reheater Tubing at the Oak Creek Power Plant, Case No. 6630-CE-119 (Ltr. Order July 22, 1986) | > 171.84 |
|--|--|---|--|--|---|----------|

Through the use of General Availability Data System (GADS) information reported by WEPCO to the North American Reliability Council, the number of hours of lost operating time attributable to major components can be determined. This is the method that EPA uses. See *United States v. Ohio Edison Co.*, 276 F.Supp.2d 829, 869-75 (S.D. Ohio 2003) (relying on EPA's experts' use of GADS data to determine cause of prior forced outages and projected increase in operating time and emissions following modification). Because a utility company replaces troublesome parts on a boiler, at least in part, to increase availability of the unit, the physical changes result in projected increased hours of operation. *Id.*

As noted above, OCPP emits approximately 0.44 tons of SO<sub>2</sub> and 0.17 tons of NO<sub>x</sub> per hour from Unit 5; 0.43 tons of SO<sub>2</sub> and 0.17 tons of NO<sub>x</sub> per hour from Unit 6; 0.58 tons of SO<sub>2</sub> and 0.18 tons per hour of NO<sub>x</sub> per hour from Unit 7; and 0.56 tons of SO<sub>2</sub> and 0.18 tons of NO<sub>x</sub> per hour from Unit 8. See Exhibit J. OCPP's hourly SO<sub>2</sub> emission rate decreased in the mid-1990s due to a fuel switch to lower sulfur coal. Before the coal switch, OCPP's hourly SO<sub>2</sub> emissions were at least double what they were after the fuel switch. Additionally, OCPP's NO<sub>x</sub> rates decreased between the late 1990s and 2004. Using the most conservative, 2004, emission rates, regaining 91 hours of operating time per year results in a significant net emission increase of SO<sub>2</sub>, and 235



hours per year results in a significant net emission increase of NOx. Using 1992 emission rates, it would take only approximately 40 hours for SO2 and 160 hours for NOx. All or almost all of the modifications above were intended to repair problem components of the boilers. The modifications should have been projected, at the time they commenced, to result in significant net emission increases due to regaining annual operating hours. OCPP did not receive a permit for the modifications, did not comply with BACT, and did not undertake an analysis of ambient air and increment impacts.

Sierra Club's permit comments noted these modifications and requested that DNR include a compliance plan in the Title V permit for the Oak Creek plant. Ex. B pp. 2-20. DNR rejected these comments for unlawful reasons. DNR's response to comments provides:

*Response:* The Department has not made a finding that the facility has violated PSD requirements nor has the facility reported to the Department that such violations have occurred. If such a finding is made in the future, then the Department will take appropriate actions to revise the operation permit as needed. Without a finding of violation, the Department will not be including a compliance plan or other requirements pertaining to PSD. [note that the draft consent decree between EPA and Wisconsin Electric includes the following: *WHEREAS, Wisconsin Electric has denied and continues to deny the violations alleged in the Complaint, maintains that it has been and remains in compliance with the Act and is not liable for civil penalties or injunctive relief, and states that it is agreeing to the obligations imposed by this Consent Decree solely to avoid the costs and uncertainties of litigation, and to reduce its emissions;*]

Exhibit C at 1-2 (emphasis in original).

As noted above, a Title V permit must “assure[] compliance by the source with all applicable requirements.” CAA § 504(a); 40 C.F.R. § 70.1; Wis. Stat. § 285.64(1); Wis. Admin. Code § NR 407.09(4)(b). “Applicable requirements” include requirements contained in preconstruction permits and the requirement to obtain preconstruction permits, comply with BACT, and undertake air impact analysis. 40 C.F.R. § 70.2; Wis. Stat. § 285.64(1); Wis. Admin. Code § NR 400.02(26). An applicant must certify that it is in compliance, or propose a plan for coming into compliance. 40 C.F.R. § 70.5(c)(8). If the source claims to be in compliance – as WEPCO has here – DNR must either agree, or issue a permit with a compliance schedule to bring the source into compliance. 40 C.F.R. § 70.6(c)(3). DNR cannot refuse to make a determination of whether the plant is in compliance and then refuse to issue a compliance schedule based on the fact that DNR has not made a determination.

40 C.F.R. § 70.5(c)(8)(iii)(C) and 70.6(c)(3) require that, if a facility is in violation of an applicable requirement and it will not be in compliance at the time of permit issuance, its permit must include a compliance schedule that meets certain criteria. For sources that are not in compliance with applicable requirements at the time of permit issuance, compliance schedules must include ‘a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance.’ 40 C.F.R. § 705(c)(8)(iii)(C).

*Onyx*, supra, at pp. 6-7. Especially here, where there is nothing in the record contradicting Sierra Club’s comments demonstrating violations and EPA’s findings of violations, DNR must find a violation and include a compliance schedule.

The Oak Creek plant is subject to PSD requirements, including the requirement to obtain a permit and the requirement to comply with BACT limits. The Title V permit does not require WEPCO to comply with these requirements. The Administrator must object. A failure to object will result in continuing operation of the Oak Creek plant in violation of applicable requirements and, consequently, illegal amounts of air pollution affecting Sierra Club's members.

**II. The Permit Application Submitted By Wisconsin Electric Omits the Required Compliance Schedule and Falsely Certifies Compliance.**

Every Title V permit application must disclose all applicable requirements and any violations at the facility. 42 U.S.C. § 7661b(b); 40 C.F.R. §§ 70.5(c)(4)(i), (5), (8); Wis. Admin. Code § NR 407.05(4)(h). For applicable requirements, including new source review requirements and other preconstruction permitting requirements, for which the source is not in compliance at the time of permit issuance, the source's application must provide a narrative description of how the source intends to come into compliance with the requirements. 42 U.S.C. § 7661b(b); 40 C.F.R. § 70.5(c)(8)-(9); Wis. Admin. Code § NR 407.05(4)(h)2.c. The application must further propose a compliance schedule for any applicable requirements for which the source is not in compliance. 40 C.F.R. § 70.5(c)(8)(iii); Wis. Admin. Code § NR 407.05(4)(h)3.c. If any statements in the application were incorrect, or if the application omits relevant facts, the applicant has an ongoing duty to supplement and correct the application. 40 C.F.R. § 70.5(b); Wis. Admin. Code § NR 407.05(9).

The permit application submitted by Wisconsin Electric Power Company ("WEPCO") for the current permit is dated May 29, 2002. (Attached as Exhibit D.) An additional application for revision is dated June 5, 2002. *Id.* Both applications include a certification that states:

I certify that the facility described in this air pollution permit application is fully in compliance with all applicable requirements.

*Id.* Both are signed by Robert Hall. *Id.* Neither certification discloses violations of the New Source Review requirements in the Clean Air Act, as set forth in Section I above. Neither proposes a compliance schedule. Neither certification has been supplemented or corrected. The compliance certifications in WEPCO's application are false, the application is incomplete and, as a result, the permit is deficient because it fails to ensure compliance.

As noted above, on April 29, 2003, the EPA filed a Complaint against WEPCO in the Eastern District of Wisconsin alleging violations of New Source Review. *See* Exhibit E ¶¶ 40-45. The Complaint asserts violations by WEPCO at the Oak Creek plant. *Id.* at ¶¶ 41, 43. Both EPA and WEPCO knew of the violations at the Oak Creek plant before the false 2002 compliance certifications in WEPCO's Title V applications. On February 16, 2001, and January 30, 2003, WEPCO provided sworn responses to EPA's information requests pursuant to Clean Air Act section 114, upon which EPA's findings of violation are based. *See* Exhibits F and G. In those responses, WEPCO admits undertaking a number of projects at the Oak Creek Power Plant. On February 23, 2001, EPA issued

the Czerniak memo, as described above, which concluded that WEPCO's section 114 responses indicate that WEPCO undertook major modifications, including seven at the Oak Creek plant. *See* Exhibit G.

Each of the projects set forth in Section I, above, constitute major modifications subject to the Prevention of Significant Deterioration requirements of the Clean Air Act. WEPCO has never complied with the requirements of PSD for these projects – including obtaining a PSD and Nonattainment New Source Review permit, complying with best available control technology, and conducting an analysis of impacts on ambient air quality standards and increments. Nevertheless, WEPCO has failed to certify its noncompliance or propose a compliance schedule in its application.

Sierra Club's comments noted that WEPCO's application was incomplete, but the DNR did not respond. Ex. B at 2-3. The Administrator must object to the permit. A failure to object will result in continuing operation of the Oak Creek plant in violation of applicable requirements and, consequently, illegal amounts of air pollution affecting Sierra Club's members.

### **III. The Permit Application Submitted By WEPCO Fails to Provide Sufficient Information To Determine Application of PSD Requirements to Planned Projects.**

As noted above, WEPCO sought permission from the Wisconsin Public Service Commission to undertake modifications at the Oak Creek plant with the express intent of regaining lost generation. Specifically, WEPCO is planning to or in the process of

replacing high-pressure turbine main steam stop and control valves on Units 5 and 6 at a cost of \$14.9 million. See Exhibits I and H. WEPCO sought permission from the Public Service Commission to undertake this project based on its projection that the project would regain operating time lost to “occurrences of the control valves becoming stuck, causing the units to be taken out of service or preventing them from returning to service in order to make repairs” as well as “major repairs that have required long outages have been related to cracks found in the stop valve bodies.” Exhibit H. As noted, in Section I, above, this project is projected to result in a significant net emission increase of PM, NO<sub>x</sub>, SO<sub>2</sub>, and other pollutants, and is therefore subject to Prevention of Significant Deterioration requirements of the Clean Air Act.

WEPCO’s Title V application did not disclose this information, even though PSD is an “applicable requirement.” 40 C.F.R. § 70.5(c)(4)(i); Wis. Admin. Code § NR 407.05(4)(d)1. Moreover, because the information is relevant and necessary to determine the applicability of PSD requirements to the plant (as well as the lower emission limits in Wis. Admin. Code § NR 415.06(2)(c)), the information was required to be included in the permit application as “other specific information that may be necessary to implement and enforce other applicable requirements of the Act or of [part 70] or to determine the applicability of such requirements.” 40 C.F.R. § 70.5(c)(5); Wis. Admin. Code §§ NR 407.05(4)(c)7., NR 407.05(4)(e). Even though WEPCO’s Title V permit application preceded its requests to the Wisconsin Public Service Commission to undertake a major modification by replacing steam stops and control valves on Oak

Creek units 5 and 6, WEPCO had an ongoing duty to supplement its application. Wis. Admin. Code § NR 407.05(9). Because WEPCO's permit application was deficient, the DNR did not make a determination of whether PSD requirements apply, whether WEPCO is in compliance with PSD, or whether a compliance plan is required in the Title V permit. This results in a deficient permit, which does not include more stringent pollution controls required under the PSD program, and the Administrator must object.

#### **IV. The Physical Changes At Units 5 and 6 Also Subject the Units to Lower Particulate Matter Limits.**

The Permit establishes a particulate matter limit for B25 and B26 of 0.15 lb/MMBtu, based on Wis. Admin. Code § NR 415.06(1)(c)2. That section of the Administrative Code applies to sources that were constructed or last modified on or before April 1, 1972. Wis. Admin. Code § NR 415.06(1). However, because Units 5 and 6 boilers have been modified since April 1, 1972, as set forth in Section I, above, the limit in Wis. Admin. Code § NR 415.06(2)(c) applies instead, and limits particulate matter to 0.10 lb/MMBtu. Sierra Club's comments raised this issue. Ex. B at 20. However, DNR rejected this comment for the same reason that it failed to respond to Sierra Club's comment regarding PSD violations: DNR has not made a determination that modifications were made. Ex. C at 1. DNR's response to comments contains no basis for rejecting the preponderance of evidence in the record demonstrating that modifications did occur – including EPA's own determinations. DNR has an affirmative duty to include all applicable requirements in the permit. CAA § 504(a); 40

C.F.R. § 70.1; Wis. Stat. § 285.64(1); Wis. Admin. Code § NR 407.09(4)(b). It cannot avoid this obligation by failing to determine whether requirements apply – especially when public comments demonstrate that the requirements apply. The Administrator must object because the permit fails to require compliance with all applicable requirements, including the 0.10 lb/ MMBtu PM limit for Units 5 and 6.

**V. The Permit Must Establish Compliance Demonstration Requirements that Ensure Continuous Compliance With Emission Limits.**

The Administrator must object to the permit because it fails to require sufficient monitoring to demonstrate continuous compliance with the applicable particulate matter limits. Wis. Admin. Code §§ NR 407.09(1)(c)(1)b. (monitoring must ensure compliance with reliable data for the relevant time period), NR 407.09(4)(a)1. (all operating permits shall contain compliance requirements “sufficient to assure compliance with the terms and conditions of the permit”). Title V permits must establish a method to ensure continuous compliance with all permit limits. 40 C.F.R. §§ 70.6(a)(3)(i)(B); Wis. Admin. Code § NR 407.09(1)(c)1.b.

The “periodic monitoring rule,” 40 C.F.R. § 70.6(a)(3)(i)(B), requires that “[w]here the applicable requirement does not require periodic testing or instrumental or noninstrumental monitoring (which may consist of record keeping designed to serve as monitoring), [each title V permit must contain] periodic monitoring sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the permit. . . . Such monitoring requirements shall assure use of terms, test methods, units, averaging periods, and other statistical conventions consistent with the applicable requirement.



to Petitioner's Request That the Administrator Object to Issuance of a State Operating Permit at p. 19 (September 22, 2005) (hereinafter "*Waukegan*") (citing 69 Fed. Reg. at 3202, 3204 (Jan. 22, 2004)); see also, *Appalachian Power Co. v. EPA*, 208 F.3d 1015 (D.C. Cir. 2000); Carraway, Candace, U.S. EPA Office of Air Quality Planning and Standards, How Do I Review Each Applicable Requirement for Adequate Periodic Monitoring? at p. 2 (June 2000).

As Sierra Club pointed out in its permit comments, the underlying SIP limit for particulate matter in NR 415 does not include a monitoring requirement. See Ex. B at 28. Therefore, the DNR must include in the Oak Creek plant's Title V permit sufficient compliance demonstration provisions to yield continuous data from which the source's compliance can be determined at any given point in time. 40 C.F.R. §§ 70.6(a)(3)(i)(B); Wis. Admin. Code § NR 407.09(1)(c)1.b. The permit proposed by DNR fails to do so.

The Permit requires the use of an Electrostatic Precipitator ("ESP") as the method to demonstrate compliance with the permit limits for PM. Exhibit A §§ I.A.1.b.(3), I.B.1.b.(3). The Permit further requires monitoring of the primary voltage, secondary voltage, primary current in amps, and secondary current in amps. Exhibit A §§ I.A.1.b.(4), I.B.1.b.(4). However, the DNR failed to "include a correlation between these measurements and compliance with the PM emission limitations." *Waukegan*, supra, p. 20; see also *In Re Port Hudson Operation Georgia Pacific*, Petition No. 6-03-01, at pages 37-40 (May 9, 2003) ("*Georgia Pacific*"); *In Re Doe Run Company Buick Mill and Mine*, Petition No. VII-1999-001, at pages 24-25 (July 31, 2002) ("*Doe Run*"). In other words,

there is no connection between the parametric values-- primary voltage, secondary voltage, primary current, and secondary current – and compliance with the PM limit. Under the current permit, the permittee could “monitor” the ESP as having no voltage and no current. This is clearly a violation because it indicates that the ESP is not operating, but there is no clear indication in the permit to this effect.

DNR responded to Sierra Club’s comments by mischaracterizing them as requiring CAM Plan indicator ranges to be enforceable. Ex. C at 2. Further, to the extent the DNR responded to Sierra Club’s requests that the permit include an enforceable parametric range, separate from CAM, DNR merely states:

*Response:* The Department disagrees that a violation of a compliance demonstration requirement is automatically a violation of an emission limit...

*Id.*

EPA has already determined that DNR’s approach to parametric monitoring is deficient. EPA has determined that if ESP parameters are monitored as the basis for determining compliance with particulate matter limits, the permit must specify the upper and/or lower range for each parameter that establishes compliance with the PM limit. *Waukegan* at pp. 20-21; *In the Matter of Dunkirk Power LLC*, Order Objecting to Proposed Operating Permit No. II-2002-02 at 20 (Adm’r July 31, 2003) (“Once the operating ranges have been established for the ESP operating parameters [based on emission stack tests], operating the ESP outside of any of these ranges would constitute a violation of the title V permit.”); *In the Matter of Oxy Vinyls, LP, Louisville, Kentucky*,

Objection to Proposed Part 70 Operating Permit No. 212-99-TV (Feb. 1, 2001) (“The permit must specify the parametric range or procedure used to establish that range, as well as the frequency for re-evaluating the range.”).<sup>12</sup>

While the permit does include parametric monitoring of emission unit and control equipment operations in the O & M plans for these units... the parametric monitoring scheme that has been specified is not adequate. The parameters to be monitored and the frequency of monitoring have been specified in the permit, but the parameters have not been set as enforceable limits. In order to make the parametric monitoring conditions enforceable, a correlation needs to be developed between the control equipment parameter(s) to be monitored and the pollutant emission levels. The source needs to provide an adequate demonstration (historical data, performance test, etc.) to support the approach used. In addition, an acceptable performance range for each parameter that is to be monitored should be established.

*In the Matter of Tampa Electric Co., F.J. Gannon Station*, Objection to Proposed Part 70 Operating Permit No. 0570040-002-AV (Sept. 8, 2000) (emphasis added); *see also In the Matter of the Huntley Generating Station*, Order Objecting to Operating Permit No. II-2002-01 at 21-22 (Adm’r July 31, 2003) (same).

DNR failed to comply with the requirement to include continuous monitoring and an enforceable parametric range in the permit. These conditions are clearly required by prior Administrator decisions. The Administrator must object to the Oak Creek permit because DNR’s failure results in a permit with deficient monitoring.

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<sup>12</sup> These USEPA decisions are based on 40 C.F.R. § 70.06(a)(1), and any modification to USEPA’s interpretation of 40 C.F.R. § 70.6(c) would not change the requirement to correlate a parameter range and the emission rate.

## VI. The Facility's CAM Plan is Deficient.

The DNR accepted a CAM plan submitted by WEPCO as complying with Part 64. However, the plan is defective and the Administrator must object. The proposed CAM plan establishes a PM "excursion" only if opacity exceeds 20% for "any three consecutive one-hour average periods, except during periods of startup, shutdown or malfunction." Ex. A at H.5.a.(1)(e). In other words, the opacity must be greater than 20% for three hours. Emissions averaging 100% opacity for two consecutive one-hour periods, and a 19% opacity average for the third one-hour period would not be recorded as an excursion. Nor would a three hour "startup" period where opacity readings averaged 100%, despite the fact that the underlying limit does not exclude periods of startup. This does not correlate to the underlying limit in NR 415.06, which is an instantaneous limit. The opacity-to-PM correlations made by WEPCO in support of this CAM plan does not support an indicator range that requires greater than 20% opacity for three consecutive hours. It does not even support a range that is average over a single hour. At most, it supports using 20% opacity as an indicator of instantaneous compliance with an instantaneous limit. By adopting an indicator range of 3-consecutive one our periods of opacity greater than 20%, DNR has effectively rewritten the applicable limit as if it were a 3 hour block average.

DNR rejected Sierra Club's comments pointing out these deficiencies by merely providing an *ipse dixit*: "Considering the operational realities of a power plant, using a longer averaging time (3 hours) to define an excursion rather than a lower opacity

threshold is reasonable.” Ex. C at 2. This does not respond to Sierra Club’s comments. First, it is unclear where DNR gets its two options: longer averaging time or lower opacity threshold. This is not responsive to Sierra Club’s comments and does not make sense. Second, it is not apparent how the “operational realities” of a plant require the use of a 3 hour average to define excursion of an instantaneous limit. If there are reasons, they are not readily apparent and DNR did not even attempt to explain them. Third, the CAM plan must contain indicator ranges that “provide[] a reasonable assurance of ongoing compliance with emission limitations...” 40 C.F.R. § 64.3(a)(2). Monitoring must be averaged consistent with the characteristics and typical variability of the pollutant-specific emissions unit, based on the amount of time that it would take the source to bring the control device back into normal operating range. 40 C.F.R. § 64.3(b)(4)(i). There is no indication that this was done for the ESPs at issue.

In summary, the opacity COMS indicator range averaging time must also meet the “period of reporting exceedances” in the underlying particulate matter limit. 40 C.F.R. § 64.3(d)(3)(i). Since the underlying limit is instantaneous, and exceedances over any averaging time must be reported, the COMS indicator value and excursion range should also be instantaneous. Simply put, there is no correlation between the CAM plan indicator range averaging times and the applicable limits. The Administrator must object.

## **V. The CAM Plan Ignores Condensible Particulate Matter.**

The proposed CAM plan is based on the use of Method 17 to test PM. Method 17 does not measure condensible fraction particulate matter, despite the fact that the limits in NR 415.06 apply to total PM (filterable and condensible). As a result, the proposed CAM plan is not correlated to the underlying limit. Furthermore, the CAM indicator range is supposed to be based on "operating parameter data obtained during the conduct of the applicable compliance or performance test conducted under conditions specified by the applicable rule." 40 C.F.R. § 64.4(c)(1). Compliance tests for particulate matter includes both Method 17 and "Wisconsin's Modified Method 5 Test Method for Condensible Particulate for determining backhalf." *See* Ex. A at I.A.1.c.(3).<sup>13</sup> Therefore, the Administrator must object because the CAM indicator range is based on only part of the total particulate matter emissions limited by the underlying limit, and fails to account for the emission test applicable to the facility.

## **VII. The Permit Illegally Exempts The Facility From Applicable Limits During Startup, Shutdown and Malfunction Periods.**

The Permit exempts excess emissions during startup and shutdown. For example, the opacity limits in sections I.A.2.a.(1) and I.B.5.a.(1) of the Permit exempt excess opacity emissions during "periods of normal start-up and shut-down," which are defined "in the start-up and shut-down plan." Normal startup and shutdown periods, however, are not exempted from the emission limit cited in the permit: NR 431.04(2).

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<sup>13</sup> DNR's proposed permit cites NR 439.07(8)(n) for this test method. However, there is no such provision in chapter NR 439. Nor does "Wisconsin Modified Method 5" appear to be an approved test method.

Instead, only the exemptions in NR 431.05 apply. NR 431.05 states "[w]hen combustion equipment is being cleaned or a new fire started, emissions may exceed number 1 of the Ringlemann chart or 20% opacity but may not exceed number 4 of the Ringlemann chart or 80% opacity for 6 minutes in any one hour. Combustion equipment may not be cleaned nor a fire started more than 3 times per day." Wis. Admin. Code NR 431.05(1). Additionally, emissions may exceed 20% opacity as permitted by DNR for operating tests, use of emergency equipment or other good cause. Wis. Admin. Code NR 431.05(2). Notably NR 431.05 does not contain an exception from the opacity limit for shutdown periods. Nor is the exception for startup without limitation- the opacity during startup cannot exceed 80% for more than 6 minutes and startup cannot occur more than 3 times per day.

The Permit cites to NR 436.03(2)(b) for the startup/shutdown exemption. However, NR 436.03(2), and its prior version in NR 154.09, were never incorporated into the Wisconsin State Implementation Plan ("SIP"). Therefore, to the extent that NR 436.03(2) exempts emissions that are otherwise prohibited by the SIP (*i.e.*, opacity greater than 20% during shutdown), NR 436.03(2) is invalid. Once EPA approves a SIP, it becomes binding federal law until EPA approves a modification. *See American Lung Assoc. v. Kean*, 871 F.2d 319, 322 (3<sup>rd</sup> Cir. 1989); *Ford Motor Co.*, 814 F.2d 1099 (6<sup>th</sup> Cir. 1987); *Coalition for Clean Air, Inc. v. So. Coast Air Quality Mgmt. Dist.*, 1999 WL 33842864, \* 1 (C.D. Cal. 1999); *Oregon Environmental Council v. Oregon Dept. of Environmental Quality*, 1992 WL 252123 (D.Or. 1992). Because EPA has never approved NR 436.03(2),

DNR cannot grant exceptions under that provision. *In the Matter of Dunkirk Power LLC*, Order Objecting to Proposed Operating Permit No. II-2002-02 at 14 (Adm'r July 31, 2003) (state cannot grant a startup/shutdown/malfunction exemption on a state rule that has not been approved into the SIP); *In the Matter of the Huntley Generating Station*, Order Objecting to Operating Permit No. II-2002-01 at 15 (Adm'r July 31, 2003) (same).

In response to Sierra Club's comments, DNR provided the following statement:

*Response:* The Department disagrees. The provision regarding allowing emissions in excess of the emission limit due to normal startup or shutdown carried out in accord with the approved startup and shutdown plan was approved in the state SIP as s. NR 154.09, Wis. Adm. Code, and later included as the renumbered s. NR 436.03(2)(b), Wis. Adm. Code. In a proposed SIP revision rule, EPA specifically cites the exemption from emissions limitations due to startup or shutdown (page 41816, FR 8/18/1981) before finalizing the revision to s. NR 154.09, Wis. Adm. Code (FR 11/27/1981).

Ex. C at 3. DNR's response misunderstands the Federal Register notices it cites and the applicable Wisconsin SIP provisions. The Federal Register notices that DNR cites do not incorporate the entire text of NR 154.09 into the Wisconsin SIP. Instead, they incorporate a specific amendment—which deletes exemptions for equipment breakdown and requires that certain exemptions be carried out “in accordance with a plan and schedule approved by the Department of Natural Resources.” 46 Fed. Reg. 41,814, 41,816 (August 18, 1981). While the Federal Register discusses Rule NR 154.09, including the startup and shutdown exemption, it specifically distinguishes between the entire rule (which EPA is not proposing to adopt), and the amendments to the rule



(which EPA is proposing to adopt). The startup and shutdown exemption is discussed as part of the former. If there were any doubt that EPA was not adopting NR 154.09, but only specific amendments to that rule, the actual language of the final rulemaking decision and the actual regulation adopted by EPA clarify this fact. EPA's rulemaking states:

On July 12, 1979, the State of Wisconsin submitted amendments to Rule NR 415.09. The amendments delete the exemption for equipment breakdown (NR 154.09(1)(b)), require that any use under NR 154.09(1)(b) be carried out in accordance with a plan and schedule approved by the Department of Natural Resources, and delete the 15-day limitation of NR 154.09(1)(c). EPA reviewed the amendments and determined that attainment and maintenance of the ambient air quality standards is not jeopardized.... EPA approves the amendments as adopted by the State.

46 Fed. Reg. 57,893, 57,895 (November 27, 1981) (emphasis added). The language of 40 C.F.R. § 52.2570(c)(22) further clarifies that EPA adopted only the "revisions to Regulation NR 154.09" that were submitted on July 12, 1979 (emphasis added). The startup and shutdown provision was a revision that was submitted on July 12, 1979. It was never approved into the Wisconsin SIP. In fact, it would not have been approved because it violates EPA's policy against such exemption provisions. *See* Memorandum from Kathleen Bennett, USEPA Assistant Administrator for Air, Noise and Radiation, to Regional Administrators, Regions I-X (Sept. 28, 1982); Memorandum from Steven A. Herman, USEPA Assistant Administrator for Enforcement and Compliance Assurance, to Regional Administrators, Regions I-X (Sept. 20, 1999).

DNR's response is also inconsistent with DNR's prior decisions. In a prior Title V permit issuance, in response to Sierra Club's comments, the DNR removed a proposed blanket startup/shutdown exemption and replaced it with the exemption in NR 431.04 and NR 431.05.

There is no language for the exclusion of startup and shutdown other than the specific language regarding an exception for up to 80% opacity for 6 minutes in any one hour when combustion equipment is being cleaned or a new fire started with the provision that combustion equipment may not be cleaned nor a fire started more than 3 times per day. Therefore, conditions I.A.2.a.(1) and I.B.2.a.(1) will be changed to read as follows:

*(1) Opacity may not exceed 40% or number 2 of the Ringlemann chart except when combustion equipment is being cleaned or a new fire started, emissions may exceed number 2 of the Ringlemann chart or 40% opacity but may not exceed number 4 of the Ringlemann chart or 80% opacity for 6 minutes in any one hour. Combustion equipment may not be cleaned nor a fire started more than 3 times per day. Emissions may exceed number 1 of the Ringlemann chart or 20% opacity for stated periods of time, as permitted by the department, for such purpose as an operating test, use of emergency or reserve equipment, or other good cause, provided no hazard or unsafe condition arises. [s. NR 431.04(1) and 431.05(1)&(2), Wis. Adm. Code]*

See Memorandum from Steve Dunn, WDNR, to Permit File for Permit# 737009020-P02 at p. 2 (Sept. 28, 2006) (attached as Exhibit O). DNR's response to comments and permit decision here, for the Oak Creek plant, conflicts with DNR's prior decision for the Weston Generating Station.

Moreover, even if the provisions of NR 436.03(2) were adopted into the SIP, DNR ignores and omits important parts of the rule. The rule provides: "Emissions in excess

of the emission limitations set in chs. NR 400 to 499 may be allowed in the following circumstances...When emissions in excess of the limits are temporary and due to scheduled maintenance, startup or shutdown of operations carried out in accord with a plan and schedule approved by the department.” Notably, it is not every startup and shutdown that is exempted but only “scheduled” startups and shutdowns, and only when carried out in accordance with both a plan and a schedule approved by the department. The limitation of the exemption to scheduled shutdowns and startups is important. A source is required to notify DNR in advance of its scheduled startups and shutdowns. Wis. Admin. Code § NR 439.03(6). In other words, even if NR 436.03(2) was in the SIP, it provides a very limited exemption for startup and shutdown periods where the source notifies DNR of the startup or shutdown in advance. The Permit omits this important qualification and provides a blanket exemption during startup and shutdown, regardless of whether the source notifies DNR in advance of the startup or shutdown. *See e.g.*, Ex. A §§ I.2.a.(1), I.B.5.a.(1).

In any event, the exemption in NR 436.03(2) is not part of the Wisconsin SIP and violates provisions of the Wisconsin SIP. The Administrator must object to the permit because it unlawfully grants exemptions from applicable limits.

**VIII. The Permit Must Incorporate, and The Public Must Be Allowed To Review And Comment On The Startup, Shutdown, and Malfunction Plans (Malfunction Prevention Plan) and The Fugitive Dust Control Plans.**

The Administrator must object to the Permit because it does not incorporate malfunction, startup/shutdown, and quality control plans into the permit which DNR relied upon to determine that the source will meet applicable requirements.

Throughout the permit, DNR relies on a “malfunction prevention and abatement plan” (“MPAP”) to assure compliance with applicable standards. *See e.g.*, Ex. A § I.A.1.b.(5). Additionally, the DNR relies upon Quality Control and Quality Assurance Plans (“QCQAP”) to ensure compliance. *See e.g.*, Ex. A § I.B.2.b.(3). DNR also allows a startup and shutdown exemption from the visible emission limit based on a definition of “normal startup and shutdown [which] shall be defined in the startup and shutdown plan.” Ex. A § I.A.2.a.(1). In other words, DNR does not merely require the plans to be submitted, but relies on the plans as the basis for finding that the plant will comply with applicable requirements and to define terms in the permit.

Because DNR is relying on the MPAP, Startup and Shutdown Plan, and QCQAP to ensure compliance and to define permit terms, the Plan must be provided in the application. 40 C.F.R. § 70.5(a)(2) (a complete application must contain sufficient information to determine all applicable requirements), 70.5(c) (application cannot “omit information needed to determine the applicability of, or impose, any applicable requirement...”), 70.5(c)(3)(vi) (application must include any “work practice standards”). The plans were not included with the application, or the public review

documents. The public had no opportunity to review the plans to determine whether they were sufficient to ensure compliance, or to determine the definition of permit terms. This is unlawful. The plans cannot be approved by DNR separate from, and later than, the Title V permit.

Second, because DNR relies on the plans to assure compliance with all applicable requirements, it must be part of the Title V permit and reviewed with the Title V permit. 40 C.F.R. §§ 70.6(a)(1), 70.7(a)(iv). It is not possible for DNR to rely on the plans to conclude that the facility will comply with all requirements, when DNR has not yet reviewed the plans. See *Environmental Defense Center, Inc. v. EPA*, 344 F.3d 832, 855-56 (9th Cir.2003) (“[P]rograms that are designed by regulated parties must, in every instance, be subject to meaningful review by an appropriate regulating entity to ensure that each such program [complies with the relevant statutory standard].”); *In re RockGen Energy Center*, 8 E.A.D. 536, 553-54 (EAB 1999) (remanding DNR permit requirement for a startup/shutdown plan that was not reviewed by DNR before permit issuance).

Third, because compliance with the plans constitutes a Permit requirement (and defines whether startup and shutdown excess emissions are exempt (Ex. A § I.A.2.a.(1)), the plans must be subject to public notice and comment. The public cannot comment on the sufficiency of the Permit, which incorporate, reference, or otherwise rely on the plans, when the plans were not part of the permit record and will not even be created until after the permit is issued. 40 C.F.R. § 70.7(h); see e.g., *Waterkeeper Alliance v. EPA*, 399 F.3d 486, 503-04 (2<sup>nd</sup> Cir. 2005) (invalidating EPA regulation that allowed Nutrient

Management Plans to be submitted after public comment and after a NPDES permit was issued); *In re RockGen Energy Center*, 8 E.A.D. at 553-54 (remanding permit requirement for a startup/shutdown plan that was not subject to public notice and review). DNR's only response to Sierra Club's comments on this issue was that EPA has not yet said DNR's practice is wrong.

*Response:* The Department disagrees. These procedures for handling such plans in permits are typical for any permit issued by the Department. Permits are routinely submitted to EPA for review and the Department's Title V permit program has been audited by EPA. EPA has not identified this issue as a problem.

Ex. C at 3. Not only is DNR wrong, because in *RockGen Energy Center*, 8 E.A.D. at 553-54, EPA did say that DNR's practice is a problem; but, DNR's excuse is irrelevant. EPA need not specifically direct DNR to follow the law for the law to apply.

The MPAP, Startup and Shutdown, and QCQAP plans were not available with the application and public review documents. Nor did DNR review them before proposing the permit—despite purporting to rely on them in issuing the permit. This likely resulted in a deficient permit because there is no basis in the record for DNR's findings that the source will comply with applicable requirements when the documents DNR purports to rely on have not be submitted to DNR. Moreover, it resulted in a deficient permit because the permit grants an exemption (for startup and shutdown) that will be defined by the permittee, through a "plan," which will be developed after the permit is issued. Therefore, the Administrator must object.

**IX. All Monitoring Data and Recordkeeping Must Be Submitted to DNR; It is Not Sufficient That the Monitoring Results Be Kept At the Source.**

The Administrator must object because the Permit does not require sufficient reporting. The Permit fails to explicitly require the source to submit all records of monitoring results to the DNR. Rather, the Permit merely requires that monitoring results be maintained at the facility. *See e.g.*, Ex. A § I.H.1.a.(3). The Wisconsin SIP expressly requires the source to “submit the results of monitoring required by the permit... no less often than every 6 months...” (emphasis added). Wis. Admin. Code § NR 439.03(1)(b). This requirement applies to any monitoring required by the permit, including parametric monitoring results (*i.e.*, records of ESP volts and amp readings). While the applicable SIP regulations provide that DNR may require sufficient summary reporting, the SIP regulations are careful to point out the minimum information necessary in summary reporting: “sufficient data for the department to determine whether the source is in compliance with the applicable requirements...” Wis. Admin. Code §§ NR 407.09(1)(c)3.a., NR 439.03(1)(a)(b). A generic certification of compliance with applicable limits is not data, and is not sufficient for DNR to independently determine whether the source is, in fact, in compliance. In short, the Title V permit must require reporting of all information necessary to determine compliance with every applicable requirement.

DNR responded to public comments by stating:

*Response:* The Department disagrees that the permit needs modification. The requirement to submit monitoring results

under s. NR 439.03(1)(b), Wis. Adm. Code, is already in the permit at I.H.1.a.(1) and I.H.1.b.(1). The comment reads more like Mr. Bender disagrees with what the Department has accepted as a summary of data at another facility, and disagrees with the option provided under s. NR 439.03(1)(b), Wis. Adm. Code, to allow submission of a summary in lieu of all monitoring results.

Exhibit C at p. 3. DNR is wrong. Sierra Club's comments were not that they disagree with DNR's practice of accepting deficient reporting (although Sierra Club does disagree with that practice), but that the permit fails to require sufficient reporting. As Sierra Club's comments state: "[t]hroughout the permit, DNR only requires that monitoring results be maintained at the facility, but fails to require such results to be provided to DNR." Ex. B at 36.

The Administrator must object. The failure to comply with the Wisconsin SIP requirement that sufficient reporting be made to DNR to determine whether the source is in compliance with the applicable requirements" violates the Act. Wis. Admin. Code §§ NR 407.09(1)(c)3.a., NR 439.03(1)(a)(b). This violation results in a deficient permit. Unless the compliance records are required by the Title V permit, the public's right to review the documents and enforce the Act are hampered. The public may have no way to determine whether violations occurred unless the permittee, itself, identifies them.

### Conclusion

For the foregoing reasons, the permit fails to meet federal requirements in numerous ways. These deficiencies require that the Administrator object to issuance of the permit pursuant to 40 C.F.R. § 70.8(c)(1). Each of the issues raised by Sierra Club in



this petition result in a deficient permit. Most of the deficiencies result in unlawful emissions of air pollutants that negatively affect the health and welfare of Sierra Club members. Others result in illegal monitoring and reporting that make it difficult for Sierra Club to monitor and enforce air pollution limits applicable to the plant.

Dated this 23rd day of August, 2007.

Attorneys for Sierra Club  
GARVEY MCNEIL & MCGILLIVRAY, S.C.

A handwritten signature in black ink, appearing to read 'D.C. Bender', with a long horizontal flourish extending to the right.

David C. Bender

SIERRA CLUB  
Bruce E. Nilles

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**CERTIFICATE OF SERVICE**

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STATE OF WISCONSIN    )  
                                  ) ss  
COUNTY OF DANE        )

I make this statement under oath and based on personal knowledge. On this day I caused to be served upon the following persons a copy of Sierra Club's Petition to the United States Environmental Protection Agency regarding the Oak Creek Power Plant, Permit No. 241007690-P10, via Certified Mail, Return Receipt Requested:

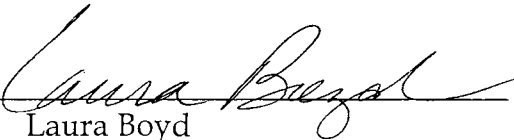
Stephen L. Johnson  
US EPA Administrator  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460

P. Scott Hassett  
Wisconsin Dept. of Natural Resources Secretary  
101 S Webster St  
PO Box 7921  
Madison, WI 53707-7921

Oak Creek Power Plant  
11060 S. Chicago Rd  
Oak Creek, WI 53154

Wisconsin Electric Power Company  
231 W. Michigan Street  
Milwaukee, WI 53203

Dated : August 23, 2007

  
Laura Boyd

Signed and sworn to before me  
This 23rd day of August, 2007.



Notary Public, State of Wisconsin  
My commission is permanent.

**PROPOSED AIR POLLUTION CONTROL OPERATION PERMIT RENEWAL**

EI FACILITY NO: 241007690

PERMIT NO.: 241007690-P10

TYPE: Part 70 Source, Affected Source for Acid Rain

In compliance with the provisions of Chapter 285, Wis. Stats., and Chapters NR 400 to NR 499, Wis. Adm. Code,

Name of Source: WE Energies, Oak Creek Station

Street Address: 11060 S. Chicago  
Oak Creek, Milwaukee County, Wisconsin

Responsible Official, & Title: Michael Lee, Asset Manager

is authorized to operate an existing electric power generation station in conformity with the conditions herein.

**THIS OPERATION PERMIT EXPIRES [Section NR 407.09(1)(b)1., Wis. Adm. Code] Date will be inserted at  
the time of issuance.**

**A renewal application must be submitted at least 6 months, but not more than 18 months, prior to this  
expiration date [ss. 285.66(3)(a), Wis. Stats. and NR 407.04(2), Wis. Adm. Code].**

No permittee may continue operation of a source after the operation permit expires, unless the permittee submits a timely and complete application for renewal of the permit. If you submit a timely and complete application for renewal, the existing operation permit will not expire until the renewal application has been finally acted upon by DNR. [ss. 227.51(2), Wis. Stats. and NR 407.04(2), Wis. Adm. Code].

This authorization requires compliance by the permit holder with the emission limitations, monitoring requirements and other terms and conditions set forth in Parts I and II hereof.

Dated at Madison, Wisconsin

**DRAFT**

STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES  
For the Secretary

By                     **DRAFT**                      
Jeff Hanson  
Air Management Supervisor

## PREAMBLE

An Asterisk (\*) throughout this document denotes legal authority, limitations and conditions which are not federally enforceable.

### Concurrent Permit Actions Performed as Part of the Review and Issuance of Permit 241007690-P10

Construction Permits Issued in Conjunction with Permit 241007690-P10 Under s. 285.61(8), Wis. Stats.: **none**

Revised Construction Permits Issued in Conjunction with Permit 241007690-P10 Under s. NR 406.11, Wis. Adm. Code: **none**

Operation (CONOP) Permits Issued in Conjunction with Permit 241007690-P10 Under s. 285.62(7)(b), Wis. Stats.: **01-RV-103-OP, 02-RV-054-OP**

Revised Operation Permits Issued in Conjunction with Permit 241007690-P10 Under ss. NR 407.11, 407.12, 407.13 and/or 407.14, Wis. Adm. Code: **none**

**The following permits, orders, etc., are adopted, under ss. 285.65(3), Wis. Stats., NR 406.11(1)(c) and (d), NR 407.09(2)(d) and NR 407.15(3) and (4), Wis. Adm. Code, by Permit 241007690-P10 which then becomes the primary enforceable document:**

241007690-P01, 241007690-P02, 01-RV-103, 01-RV-103-OP, 02-RV-054, 02-RV-054-OP

#### Stack and Process Index.

- A. Stack S13, Process B25 and 26 - Wall Fired Boilers (Acid rain units ID #5 & 6)
- B. Stack S14, Process B27 and 28 - Tangentially Fired Boilers (Acid rain units ID #7 & 8)
- C. Stack S15, Process P30 - Gas Turbine Generator
- D. Stack S16, Process F01 - Reclaim Coal Storage Pile  
Stack S17, Process F02 - Outdoor Storage Pile at Coal Dock<sup>1</sup>
- E. Stack S18, Process F03 – In-Plant Coal Transfer<sup>2</sup>
- F. Stack S19, Process F04 – Ash Handling System
- G. Stack S114, Process P31 - Fly Ash Storage Facility

*Note: Stack S16, S17, S18 and S19 represent fugitive emissions from the coal piles and material handling processes rather than actual physical stacks.*

<sup>1</sup> Reclaim Coal Storage Pile (S16) and the Outdoor Storage Pile at Coal Dock (S17) are anticipated to be retired in 2007, and would be replaced by the new site coal handling system covered under construction permit 03-RV-166-R1.

<sup>2</sup> A portion of the In-Plant Coal Transfer system (S18) (railcar unloading, crushing and conveying) is anticipated to be retired in 2007 when the new site bulk material coal handling system becomes operational. (The new equipment is covered under construction permit 03-RV-166-R1.) What will remain of this source (S18) will be the belts that convey the coal inside the south Oak Creek plant running from the 7/8 Junction House to each unit's green coal silo.

**Insignificant Emission Units**

- Boiler, Turbine, and HVAC System Maintenance.
- Convenience Space Heating (< 5 million BTU/hr Burning Gas, Liquid, or Wood).
- Convenience Water Heating.
- Demineralization and Oxygen Scavenging of Water for Boilers.
- Fire Control Equipment.
- Fuel Oil Storage Tanks (< 10,000 gal.).
- Internal Combustion Engines Used for Warehousing and Material Transport.
- Janitorial Activities.
- Maintenance of Grounds, Equipment, and Buildings (lawn care, painting, etc.).
- Office Activities.
- Pollution Control Equipment Maintenance.
- Purging of Natural Gas Lines.
- Sanitary Sewer and Plumbing Vents
- Sodium Hydroxide Storage Tank (12,000 gal.)
- Ferric Chloride Storage Tank (T01 - 10,500 gal.)

**Permit Shield** — Unless precluded by the Administrator of the US EPA, compliance with all emission limitations in this operation permit is considered to be compliance with all emission limitations established under ss. 285.01 to 285.87, Wis. Stats., and emission limitations under the federal clean air act, that are applicable to the source if the permit includes the applicable limitation or if the Department determines that the emission limitations do not apply. The following emission limitations were reviewed in the analysis and preliminary determination and were determined not to apply to this stationary source:

none

**Part I** — The headings for the areas in the permit are defined below. The legal authority for these limitations or methods follows them in [brackets].

**Pollutant** – This area will note which pollutant is being regulated by the permit.

**Limitations** – This area will list all applicable emission limitations that apply to the source, including case-by-case limitations such as Latest Available Control Techniques (LACT), Best Available Control Technology (BACT), or Lowest Achievable Emission Rate (LAER). It will also list any voluntary restrictions on hours of operation, raw material use, or production rate requested by the permittee to limit potential to emit.

**Compliance Demonstration** – The compliance demonstration methods outlined in this area may be used to demonstrate compliance with the associated emission limit or work practice standard listed under the corresponding **Limitations** column. The compliance demonstration area contains limits on parameters or other mechanisms that will be monitored periodically to ensure compliance with the limitations. The requirement to test as well as initial and periodic test schedules, if testing is required, will be stated here. Notwithstanding the compliance determination methods which the owner or operator of a sources is authorized to use under ch. NR 439, Wis. Adm. Code, the Department may use any relevant information or appropriate method to determine a source’s compliance with applicable emission limitations.

**Reference Test Methods, Recordkeeping, and Monitoring Requirements** – Specific USEPA Reference test methods or other approved test methods will be contained in this area and are the methods that must be used whenever testing is required. A reference test method will be listed even if no testing is immediately required. Also included in this area are any recordkeeping requirements and their frequency and reporting requirements. Accuracy of monitoring equipment shall meet, at a minimum, the requirements of s. NR 439.055(3) and (4), Wis. Adm. Code, as specified in Part II of this permit.

**Condition Type** – This area will specify other conditions that are applicable to the entire facility that may not be tied to one specific pollutant.

**Conditions** – Specific conditions usually applicable to the entire facility or compliance requirements.

**Compliance Demonstration** – This area contains monitoring and testing requirements and methods to demonstrate compliance with the conditions.

**PART II** — This section contains the general limitations that the permittee must abide by. These requirements are standard for most sources of air pollutants so they are included in this section with every permit.

**Part I**

**A. S13, B25/C05 and B26/C06 - Wall Fired Boilers, 2298 and 2283 mmBtu/hr heat input (1959 and 1961). (Acid Rain Units 5 & 6).**

| Pollutant                                     | a. Limitations  | b. Compliance Demonstration  | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|---|---|--|---|
| <p><b>1. Particulate Matter Emissions</b></p> | <p>(1) Emissions may not exceed 0.15 pounds particulate matter emissions per million BTU heat input from any stack.</p> <p>[s. NR 415.06(1)(c)2., Wis. Adm. Code]</p> | <p>(1) The primary type of fuel used in the Wall Fired Boilers shall be coal. Natural gas and/or propane may be used for flame stabilization, startup, and light off and for supplemental firing. If primary or supplemental fuel types other than coal, natural gas, or propane are used, the permittee shall notify the Department at least 21 days in advance. Alternate fuels may not be burned in this unit unless they meet the requirements in s. NR 406.04(4)(a), Wis. Adm. Code. [s. 285.65(3), Wis. Stats., ss. NR 407.025(1)(b), 407.09(4)(a)3.b., Wis. Adm. Code]</p> <p>(2) Compliance emission tests shall be performed every 24 months to demonstrate compliance with the particulate matter emissions limitations, while operating at 100% capacity and using representative coal. If operation at 100% capacity is not feasible, the source shall operate at a capacity level which is approved by the Department in writing. If the compliance emission tests cannot be conducted within 90 days of the May 31<sup>st</sup> biennial test date, the permit holder may request and the Department may approve in writing an alternate date. The Department shall be informed at least 20 working days prior to the tests so a Department representative can witness the testing. At the time of notification, a compliance emission test plan following the provisions set forth in Section NR 439.07, Wis. Adm. Code, shall also be submitted to</p> <p style="text-align: center;">- continued-</p> | <p>(1) The permittee shall maintain monthly records of the fuel types used in the Wall Fired Boilers. [s. NR 407.09(4)(a)1., Wis. Adm. Code]</p> <p>(2) Two copies of the report on the compliance emission tests for particulate matter shall be submitted to the Department for evaluation within 60 days after the tests. [s. NR 439.07(9), Wis. Adm. Code]</p> <p>(3) Whenever a stack test for particulate matter emissions including backhalf is required, the permittee shall use Method 5 or Method 17 in 40 CFR Part 60, Appendix A, incorporated by reference in Section NR 484.04, Wis. Adm. Code, for determining particulate emissions and Wisconsin's Modified Method 5 Test Method for Condensable Particulate for determining backhalf. [ss. NR 439.06(1), NR 439.07(8)(n)*, Wis. Adm. Code]</p> <p>(4) The permittee shall record the primary and secondary voltage in volts, primary and secondary current in amps, and sparking rate in sparks per minute for each electrostatic precipitator once every 8 hours of source operation or once per day whichever yields the greater number of measurements. [ss. NR 439.055(2)(b)2., NR 407.09(1)(c)1.a., Wis. Adm. Code]</p> <p>(5) The permittee shall keep records of the date and name of the person performing the inspections of the electrostatic precipitators, a list of the items inspected, and any maintenance or repairs performed as a result of these inspections. [s. NR 407.09(1)(c)1.b., Wis. Adm. Code]</p> <p style="text-align: center;">- continued-</p> |



A. S13, B25/C05 and B26/C06 - Wall Fired Boilers, 2298 and 2283 mmBtu/hr heat input (1959 and 1961). (Acid Rain Units 5 & 6).

| Pollutant   | a. Limitations | b. Compliance Demonstration  | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|---|----------------|--|---|
| 1. Particulate Matter Emissions<br><br><i>(continued)</i> |                | <p>the Department. The Department may grant a written waiver of a scheduled test if any of the exceptions listed in s. NR 439.075(4)(a)1. apply. [s. NR 439.075(3)(b), Wis. Adm. Code]</p> <p>(3) The permittee shall use an electrostatic precipitator for each boiler at all times when the boilers are operated. [s. 285.65(3), Wis. Stats., s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</p> <p>(4) The permittee shall monitor the primary and secondary voltage in volts, primary and secondary current in amps, and sparking rate in sparks per minute for each electrostatic precipitator. [ss. NR 439.055(1)(c), NR 407.09(4)(a)3.b., Wis. Adm. Code]</p> <p>(5) The permittee shall perform inspections of each electrostatic precipitator in accordance with an approved malfunction prevention and abatement plan to ensure that the control equipment is operating properly. . [s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</p> <p>(6) If flue gas conditioning systems are used to optimize the efficiency of the electrostatic precipitators when performing the compliance emission test in condition A.1.b.(2), the permittee shall use flue gas conditioning when running the type of coal used in the compliance emission test. [s. 285.63(1)(a), Wis. Stats.]</p> | <p>(6) If flue gas conditioning systems are used to optimize the efficiency of the electrostatic precipitators when performing the compliance emission test in condition A.1.b.(2), the permittee shall maintain monthly records sufficient to demonstrate that flue gas conditioning is used when required. [s. NR 407.09(1)(c)1.b., Wis. Adm. Code]</p> |

A. S13, B25/C05 and B26/C06 - Wall Fired Boilers, 2298 and 2283 mmBtu/hr heat input (1959 and 1961). (Acid Rain Units 5 & 6).

| Pollutant            | a. Limitations   | b. Compliance Demonstration  | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|----------------------|--|--|---|
| 2. Visible Emissions | (1) Opacity may not exceed 20% except during periods of normal startup and shutdown. Normal startup and shutdown shall be defined in the startup and shutdown plan. [ss. NR 431.04(2), 436.03(2)(b), Wis. Adm. Code] | (1) The permittee shall calibrate, maintain, and operate a continuous monitoring system for the measurement of opacity. [ss. NR 439.095(5)(a)1., NR 439.095(5)(f), Wis. Adm. Code]<br><br>(2) The permittee shall calibrate, maintain, and operate the continuous emission monitor in accordance with Performance Specification 1 in 40 CFR part 60, Appendix B. [s. NR 439.09(1), Wis. Adm. Code] | (1) The continuous emission monitor shall complete one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. [s. NR 439.09(9)(a), Wis. Adm. Code]<br><br>(2) The permittee shall submit quarterly excess emission reports to the Department within 30 days following the end of each reporting period <sup>3</sup> . Excess emissions for opacity are any 6-minute period during which the average opacity exceeds 20% except during periods of normal startup and shutdown. [s. NR 439.09(10), Wis. Adm. Code]<br><br>(3) The excess emission reports required by condition I.A.2.c.(2) shall contain the information in condition I.H.1.b.(3). [s. NR 439.09(10)(a), Wis. Adm. Code]<br><br>(4) Whenever visible emissions tests are required, the permittee shall use Method 9 in 40 CFR Part 60, Appendix A. [s. NR 439.06(9)(a)1., Wis. Adm. Code] |

<sup>3</sup> 45 days and semi-annual when the cooperative agreement (<http://www.dnr.state.wi.us/org/caer/cea/ecpp/agreements/wepco2/index.htm>) is in effect and when consistent with the SIP.

A. S13, B25/C05 and B26/C06 - Wall Fired Boilers, 2298 and 2283 mmBtu/hr heat input (1959 and 1961). (Acid Rain Units 5 & 6).

| Pollutant                          | a. Limitations   | b. Compliance Demonstration  | c. Reference Test Methods, Recordkeeping and Monitoring Requirements   |
|------------------------------------|--|--|--|
| <p>3. Sulfur Dioxide Emissions</p> | <p>(1) Emissions may not exceed 3.2 pounds of sulfur dioxide per million BTU heat input from any stack.<br/>[s. NR 417.07(2)(a), Wis. Adm. Code]</p> | <p>(1) The permittee shall calibrate, maintain, and operate a continuous monitoring system for the measurement of sulfur dioxide. [ss. NR 439.095(5)(a)2., NR 439.095(5)(f), Wis. Adm. Code]</p> <p>(2) The permittee shall calibrate, maintain, and operate the continuous emission monitor in accordance with the performance specifications in 40 CFR part 75, Appendices A to I. [ss. NR 439.09(2), NR 439.095(6), Wis. Adm. Code]</p> <p>(3) The permittee shall calibrate, maintain, and operate a continuous monitoring system for the measurement of carbon dioxide. [ss. NR 439.095(5)(a)4., NR 439.095(5)(f), Wis. Adm. Code]</p> <p>(4) The permittee shall calibrate, maintain, and operate the continuous carbon dioxide emission monitor in accordance with the performance specifications in 40 CFR part 75, Appendices A to I. [ss. NR 439.09(3), NR 439.095(6), Wis. Adm. Code]</p> <p>(5) The permittee shall submit to the Department a quality control and quality assurance plan for the continuous carbon dioxide emission monitor, and comply with the plan. [ss. NR 439.09(8), NR 439.095(6), Wis. Adm. Code]</p> <p style="text-align: center;">- continued -</p> | <p>(1) The continuous sulfur dioxide emission monitor shall complete one cycle of sampling, analyzing and data recording for each successive 15-minute period. The values recorded shall be averaged hourly. Hourly averages shall be computed from 4 data points equally spaced over each 1 hour period, except during periods when calibration, quality assurance or maintenance activities are being performed. During these periods, a valid hour shall consist of at least 2 data points separated by a minimum of 15 minutes. [s. NR 439.09(9)(b), Wis. Adm. Code]</p> <p>(2) The permittee shall submit quarterly excess emission reports to the department within 30 days following the end of each reporting period<sup>3</sup>. Excess emissions for sulfur dioxide are any 24-hour rolling average during which the average sulfur dioxide emissions exceed 3.2 pounds of sulfur dioxide per million BTU heat input from any stack except during periods of normal startup and shutdown. [s. NR 439.09(10), Wis. Adm. Code]</p> <p>(3) The excess emission reports required by condition I.A.3.c.(2) shall contain the information in condition I.H.1.b.(3). [s. NR 439.09(10)(a), Wis. Adm. Code]</p> <p>(4) Whenever sulfur dioxide tests are required, the permittee shall use Method 6, 6A or 6C in 40 CFR Part 60, Appendix A. [s. NR 439.06(2)(a), Wis. Adm. Code]</p> <p style="text-align: center;">- continued -</p> |

A. S13, B25/C05 and B26/C06 - Wall Fired Boilers, 2298 and 2283 mmBtu/hr heat input (1959 and 1961). (Acid Rain Units 5 & 6).

| Pollutant   | a. Limitations | b. Compliance Demonstration   | c. Reference Test Methods, Recordkeeping and Monitoring Requirements   |
|---|----------------|---|--|
| 3. Sulfur Dioxide Emissions<br><br><i>(continued)</i> |                | <p>(6) The data obtained from the continuous monitoring system for the measurement of carbon dioxide in the flue gas shall be used to convert sulfur dioxide continuous emission monitoring data to units of the applicable emission limitation. [s. NR 439.095(5)(a)4., Wis. Adm. Code]</p> <p>(7) The permittee shall calibrate, maintain, and operate a continuous monitoring system for the measurement of stack flow rate. [s. NR 439.095(5)(f), Wis. Adm. Code]</p> <p>(8) The permittee shall calibrate, maintain, and operate the continuous stack flow rate emission monitor in accordance with the performance specifications in 40 CFR part 75, Appendices A to I. [s. NR 439.095(6), Wis. Adm. Code]</p> <p>(9) The permittee shall submit to the Department a quality control and quality assurance plan for the continuous stack flow rate emission monitor, and comply with the plan. [s. NR 439.095(6), Wis. Adm. Code]</p> | <p>(5) The continuous carbon dioxide emission monitor shall complete one cycle of sampling, analyzing and data recording for each successive 15-minute period. The values recorded shall be averaged hourly. Hourly averages shall be computed from 4 data points equally spaced over each 1 hour period, except during periods when calibration, quality assurance or maintenance activities are being performed. During these periods, a valid hour shall consist of at least 2 data points separated by a minimum of 15 minutes. [s. NR 439.09(9)(b), Wis. Adm. Code]</p> |

A. S13, B25/C05 and B26/C06 - Wall Fired Boilers, 2298 and 2283 mmBtu/hr heat input (1959 and 1961). (Acid Rain Units 5 & 6).

| Pollutant                              | a. Limitations   | b. Compliance Demonstration   | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|--|--|---|---|
| <p>4. Oxides of Nitrogen Emissions</p> | <p>(1) No person may cause, allow or permit nitrogen oxides to be emitted from a boiler, owned or operated by a utility as defined in s. NR 409.02(84), Wis. Adm. Code with a maximum design heat input of 500 million Btu per hour or greater in excess of the most stringent of the following limits, as applicable, during the ozone season<sup>4,5</sup>:</p> <p>(a) 0.29 pounds per million Btu of heat input on a 30-day rolling average basis, on or after December 31, 2005,</p> <p>(b) 0.28 pounds per million Btu of heat input on a 30-day rolling average basis, on or after December 31, 2007.</p> <p>[s. NR 428.05(3)(a), Wis. Adm. Code and s. 285.65(3), Wis. Stats., Wis. Stats.]</p> | <p>(1) The permittee shall calibrate, maintain, and operate a continuous monitoring system for the measurement of nitrogen oxides. [s. NR 439.095(5)(f), Wis. Adm. Code]</p> <p>(2) The permittee shall calibrate, maintain, and operate the continuous emission monitor in accordance with the performance specifications in 40 CFR part 75, Appendices A to I. [ss. NR 439.09(2), NR 439.095(6), Wis. Adm. Code]</p> <p>(3) Except as provided under s. NR 428.06(2), Wis. Adm. Code, each emissions unit shall demonstrate compliance with I.A.4.a.(1) on a per unit basis. [s. NR 428.06(1), Wis. Adm. Code]</p> <p>(4) The permittee shall comply with the provisions of s. NR 428.06(2), Wis. Adm. Code when entering into an agreement for trading excess nitrogen oxides emission reduction.<sup>6</sup> [s. 285.65(3), Wis. Stats., s. NR 428.06(2), Wis. Adm. Code]</p> <p>(5) The permittee shall determine the average NOx emission rate, in pound per million Btu, using the methods and procedures specified in 40 CFR part 75, Appendices A through I. [s. 428.05(4)(b), Wis. Adm. Code]</p> <p>(6)(a) The nitrogen oxide emissions per million Btu heat input from all units subject to the requirements of s. NR 428.05(3) under the common ownership or control may be averaged together for the purpose of</p> | <p>(1) <i>Reference Test Method for Nitrogen Oxide Emissions:</i> Whenever compliance emission testing is required, US EPA Method 7 in 40 CFR Part 60, Appendix A, or an alternate method approved in writing by the Department, shall be used to demonstrate compliance. [s. NR 439.06(1), Wis. Adm. Code]</p> <p>(2) The continuous emission monitor shall complete one cycle of sampling, analyzing and data recording for each successive 15-minute period. The values recorded shall be averaged hourly. Hourly averages shall be computed from 4 data points equally spaced over each 1 hour period, except during periods when calibration, quality assurance or maintenance activities are being performed. During these periods, a valid hour shall consist of at least 2 data points separated by a minimum of 15 minutes. [s. NR 439.09(9)(b), Wis. Adm. Code]</p> <p>(3) The permittee shall comply with the monitoring requirements under ss. NR 428.07 and NR 428.08(1)(a), Wis. Adm. Code. [s. NR 428.05(4)(a)1., Wis. Adm. Code]</p> <p>(4) The emissions measurements recorded and reported in accordance with ss. NR 428.07, NR 428.08, Wis. Adm. Code shall be used to demonstrate compliance of the NOx emission performance standards. [s. 285.65(3), Wis. Stats.,]</p> <p>(5) The permittee shall keep on site the following documents for a period of 5 years from the date the document is created:</p> |

<sup>4</sup> "Ozone season" means the period from May 1 through September 30 of any year.

<sup>5</sup> Refer to the acid rain portion of this operation permit for additional limitations.

<sup>6</sup> The emission trading plan under s. NR 428.06(2), Wis. Adm. Code is SIP approved (<http://www.epa.gov/fedrgstr/EPA-AIR/2003/April/Day-10/a8536.htm>).

A. S13, B25/C05 and B26/C06 - Wall Fired Boilers, 2298 and 2283 mmBtu/hr heat input (1959 and 1961). (Acid Rain Units 5 & 6).

| Pollutant | a. Limitations | b. Compliance Demonstration   | c. Reference Test Methods, Recordkeeping and Monitoring Requirements   |
|-----------|----------------|---|--|
|           |                | <p>determining compliance with the source's aggregate nitrogen oxide emissions limitations<sup>7</sup>.</p> <p>(b) Total pounds of emissions shall be determined by continuous monitors that meet the requirements of 40 CFR part 60, Appendix B. Wis. Adm. Code.</p> <p>[s. 428.06(1), Wis. Adm. Code]</p> | <p>a) All emissions monitoring information in accordance with ss. NR 428.07, NR 428.08, Wis. Adm. Code.</p> <p>b) Copies of all reports, compliance certifications and other submissions and all records made or required under ss. NR 428.07, NR 428.08, Wis. Adm. Code. [s. NR 428.05(5), Wis. Adm. Code and s. 285.65(3), Wis. Stats.]</p> <p>(6) Except as provided under (7), the permittee shall submit quarterly reports of emissions monitoring and compliance certification to the Department every quarter.</p> <p>(a) The time periods to be addressed by the submittal are January 1 to March 30 and April 1 to June 30 and July 1 to September 30 and October 1 to December 31.</p> <p>(b) The reports shall be submitted to the Southeast Region Air Program within 30 days after the end of each reporting period<sup>3</sup>.</p> <p>(c) Each submittal shall be certified by a responsible official as to the truth, accuracy and completeness of the report.</p> <p>[ss. NR 428.09(4), Wis. Adm. Code; s. NR 439.09(10), Wis. Adm. Code]</p> <p>(7) If the permittee complies with I.A.4.a.(1) through a unit ozone season NOx emissions averaging program under s. NR 428.06(2), Wis. Adm. Code, the permittee shall submit a compliance report meeting the requirements of s. NR 428.06(4)(i), Wis. Adm. Code, to the Department not later than 60 days after the last day of the ozone season. [s. NR 428.06(4)(i), Wis. Adm. Code]</p> |

<sup>7</sup> The averaging plan under s. NR 428.06(1), Wis. Adm. Code is SIP approved (<http://www.epa.gov/fedrgstr/EPA-AIR/2003/August/Day-29/a22050.htm>).

A. S13, B25/C05 and B26/C06 - Wall Fired Boilers, 2298 and 2283 mmBtu/hr heat input (1959 and 1961). (Acid Rain Units 5 & 6).

| Pollutant                    | a. Limitations   | b. Compliance Demonstration   | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|------------------------------|--|---|---|
| 5. Hazardous Air Emissions * | <p>(1) Boiler chemical cleaning waste liquid may be burned in the wall fired boilers without prior Department approval at NR 445 pollutant concentrations (milligrams per liter) in the liquid below: Chromium +3 compounds, as Cr, 14 mg/lit; Chromium +6 compounds, as Cr, water soluble, 1.4 mg/lit; Calcium, 55.7 mg/lit; Nickel, 795 mg/lit. Boiler chemical cleaning waste liquid containing aluminum, copper, and iron may be burned in the wall fired boilers without prior Department approval.<sup>8</sup> [s. NR 445.05(1), (3) and (4), Wis. Adm. Code] *</p> <p>(2) The total waste volume incinerated in all boilers in this facility may not exceed 125,000 gallons per year.<sup>8</sup> [s. NR 445.05(1), (3) and (4), Wis. Adm. Code] *</p> <p>(3) The waste solution injection rate into all boilers in this facility may not exceed 80 gallons per minute.<sup>8</sup> [s. 285.65(7), Wis. Stats.] *</p> | <p>(1) The permittee shall analyze representative samples of boiler chemical cleaning wastes to be burned in the boilers for the presence of NR 445 compounds. [s. NR 407.09(4)(a)1., Wis. Adm. Code] *</p> <p>(2) If any of the concentration levels in I.A.5.a. are exceeded or if any NR 445 compounds not listed in I.A.5.a. are present, the permittee shall inform the Department 21 days before any boiler cleaning wastes are to be burned [s. NR 407.09(4)(a)1., Wis. Adm. Code] *</p> | <p>(1) The permittee shall use the test methods listed in s. NR 605.11, Wis. Adm. Code, or 40 CFR part 261, Appendix II to determine the concentration of the compounds listed in condition I.A.5.a.(1), in representative samples from boiler chemical cleaning waste liquids to be burned in the boilers [s. NR 439.06(8), Wis. Adm. Code] *</p> <p>(2) The permittee shall keep written records of all of items (a) through (e):</p> <p>(a) The date of the incineration and in which boiler the waste is burned;</p> <p>(b) The solvent used to clean boilers;</p> <p>(c) The volume of boiler chemical cleaning waste liquids burned;</p> <p>(d) The analysis required by condition I.A.5.b.(1) for all boiler chemical cleaning waste liquids burned in the boiler;</p> <p>(e) The injection rate of the boiler chemical cleaning waste liquid and the length of time incineration was performed.</p> <p>[s. NR 439.04(1)(d), Wis. Adm. Code] *</p> |

<sup>8</sup> These conditions are based on WEPCO's proposed evaporation of non-hazardous boiler cleaning wastes at the Oak Creek Power Plant which was approved by the Department in a letter dated December 11, 1996.

B. S14, B27/C07 and B28/C08 - Tangentially Fired Boilers, 2608 and 2568 mmBtu/hr heat input (installed 1965 and 1967). (Acid Rain Units 7 & 8).

| Pollutant                              | a. Limitations  | b. Compliance Demonstration <sup>9</sup>   | c. Reference Test Methods, Recordkeeping and Monitoring Requirements <sup>9</sup>   |
|--|---|--|---|
| <p>1. Particulate Matter Emissions</p> | <p>(1) Emissions may not exceed 0.10 pounds of particulate matter emissions per million Btu Heat Input.<sup>9</sup> [s. NR 415.06(2)(c), Wis. Adm. Code, 01-RV-103]</p> | <p>(1) The primary type of fuel used in this boiler shall be coal. Natural gas and or/propane may be used for flame stabilization, startup, and light off and for supplemental firing. If primary or supplemental fuel types other than coal, natural gas, or propane are used, the permittee shall notify the Department at least 21 days in advance. Alternate fuels may not be burned in this unit unless they meet the requirements in s. NR 406.04(4)(a), Wis. Adm. Code. [ss. NR 407.025(1)(b), NR 407.09(4)(a)3. b., Wis. Adm. Code; s. 285.65(3), Wis. Stats., 01-RV-103]</p> <p>(2) <i>Stack Parameters.</i> These requirements are included because the source was reviewed with these stack parameters and it was determined that no increments or ambient air quality standards will be violated when constructed as proposed.</p> <p>(a) The stack height shall be at least 553 feet above ground level. [s. 285.65(3), Stats. and s. NR 406.10, Wis. Adm. Code, 01-RV-103]</p> <p>(b) The stack inside diameter at the outlet may not exceed 17.30 feet. [s. 285.65(3), Stats. and s. NR 406.10, Wis. Adm. Code, 01-RV-103]</p> <p>(3) Particulate matter emissions shall be controlled using an electrostatic precipitator (ESP) at all times when the boiler is operated. [s. NR 407.09(4)(a)3. b., Wis. Adm. Code; s. 285.65(3), Wis. Stats., 01-RV-103]</p> <p style="text-align: center;">-continued-</p> | <p>(1) <i>Reference Test Method for Particulate Matter Emissions:</i> Whenever compliance emission testing is required, US EPA Method 5 or method 17, including back half (Method 202) shall be used to demonstrate compliance. [s. NR 439.06(1), Wis. Adm. Code, 01-RV-103]</p> <p>(2) The permittee shall keep and maintain on site technical drawings, blueprints or equivalent records of the physical stack parameters. [s. NR 439.04(1)(d), Wis. Adm. Code, 01-RV-103]</p> <p>(3) The permittee shall maintain monthly records of the fuel types used in the tangentially fired boiler. [s. NR 407.09(4)(a)1., Wis. Adm. Code, 01-RV-103]</p> <p>(4) Two copies of the report on the compliance emission tests for particulate matter shall be submitted to the Department for evaluation within 60 days after the tests. [s. NR 439.07(9), Wis. Adm. Code, 01-RV-103]</p> <p>(5) The permittee shall record the primary and secondary voltage in volts, primary and secondary current in amps, and sparking rate in sparks per minute or each electrostatic precipitator once every 8 hours of source operation or once per day whichever yields the greater number of measurements. [ss. NR 439.055(2)(b)2., NR 407.09(1)(c)1. b., Wis. Adm. Code, 01-RV-103]</p> <p>(6) The permittee shall keep records of the date and name of the person performing the inspections of the electrostatic precipitators, a list of the items inspected, and any maintenance or repairs performed as a result of these inspections. [s. NR 407.09(1)(c)1. b., Wis. Adm. Code, 01-RV-103]</p> <p style="text-align: center;">- continued -</p> |

<sup>9</sup> From permit 01-RV-103.



**B. S14, B27/C07 and B28/C08 - Tangentially Fired Boilers, 2608 and 2568 mmBtu/hr heat input (installed 1965 and 1967). (Acid Rain Units 7 & 8).**

| Pollutant   | a. Limitations | b. Compliance Demonstration   | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|---|----------------|---|---|
| <p><b>1. Particulate Matter Emissions</b><br/><br/><i>(continued)</i></p> |                | <p>(4) The permittee shall monitor the primary and secondary voltage in volts, primary and secondary current in amps, and sparking rate in sparks per minute. [s. NR 406.10 and s. NR 407.09(4)(a)3. b., Wis. Adm. Code; s. 285.65(3), Wis. Stats., 01-RV-103 ]</p> <p>(5) The permittee shall perform inspections of the ESP in accordance with an approved malfunction prevention and abatement plan to ensure that the control equipment is operating properly.<sup>10</sup> [s. 285.65(3), Wis. Stats., s. NR 407.09(4)(a)3. b., Wis. Adm. Code, 01-RV-103]</p> <p>(6) If the flue gas conditioning systems are used to optimize the efficiency of the electrostatic precipitators when performing the compliance emission test in condition (7) below, the permittee shall use flue gas conditioning when running the type of coal used in the compliance emission test. [s. 285.63(1)(a) , Wis. Stats., 01-RV-103]</p> <p>(7) Compliance emission tests shall be performed every 24 months (exceptions provided in s. NR 439.075(4), Wis. Adm. Code) to demonstrate compliance with the particulate matter emission limitations while operating at 100% capacity. Each biennial test shall be performed within 90 days of May 31<sup>st</sup>. [s. 285.65(10) and s. 285.65(3), Wis. Stats., and s. NR 439.075, Wis. Adm. Code, 01-RV-103]</p> <p>(8) If operation at 100% capacity is not feasible, the source shall operate at a capacity level which is approved by the Department in writing. The Department shall be informed at least 20 working days prior to the tests so a Department representative can witness the testing. At the time of notification, a compliance emission test plan following the provision set forth in Section NR 439.07, Wis. Adm. Code, shall also be submitted to the Department. The department may grant a written waiver of a scheduled test if any of the exceptions listed in s. NR 439.075(4)(a)1., Wis. Adm. Code apply. [s. NR 439.075(3)(b), Wis. Adm. Code, 01-RV-103]</p> | <p>(7) If flue gas conditioning systems are used to optimize the efficiency of the electrostatic precipitators when performing the compliance emission test in condition I.B.1.b.(7) , the permittee shall maintain monthly records sufficient to demonstrate that flue gas conditioning is used when required. [s. NR 407.09(1)(c)1.b., Wis. Adm. Code, 01-RV-103]</p> |

<sup>10</sup> Permit 01-RV-103 required the permittee to submit an updated malfunction prevention abatement plan for Department approval within 90 days of permit issuance.

B. S14, B27/C07 and B28/C08 - Tangentially Fired Boilers, 2608 and 2568 mmBtu/hr heat input (installed 1965 and 1967). (Acid Rain Units 7 & 8).

| Pollutant                          | a. Limitations  | b. Compliance Demonstration   | c. Reference Test Methods, Recordkeeping and Monitoring Requirements   |
|------------------------------------|---|---|--|
| <p>2. Sulfur Dioxide Emissions</p> | <p>(1) Emissions may not exceed 3.2 pounds of sulfur dioxide per million Btu heat input from any stack.<sup>11</sup><br/>[s. NR 417.07(2)(a), Wis. Adm. Code, 01-RV-103]<sup>12</sup></p> | <p>(1) The permittee shall calibrate, maintain, and operate a continuous monitoring system for the measurement of sulfur dioxide. [ss. NR 439.095(5)(a)2., NR 439.095(5)(f), Wis. Adm. Code, 01-RV-103]</p> <p>(2) The permittee shall calibrate, maintain, and operate the continuous emission monitor in accordance with the performance specifications in 40 CFR part 75, Appendices A to I. [ss. NR 439.09(2), NR 439.095(6), Wis. Adm. Code, 01-RV-103]</p> <p>(3) The permittee shall calibrate, maintain, and operate a continuous monitoring system for the measurement of carbon dioxide. [ss. NR 439.095(5)(a)4., NR 439.095(5)(f), Wis. Adm. Code, 01-RV-103]</p> <p>(4) The permittee shall calibrate, maintain, and operate the continuous carbon dioxide emission monitor in accordance with the performance specifications in 40 CFR part 75, Appendices A to I. [ss. NR 439.09(3), NR 439.095(6), Wis. Adm. Code, 01-RV-103]</p> <p style="text-align: center;">- continued -</p> | <p>(1) <i>Reference Test Method for Sulfur Dioxide Emissions:</i> Whenever compliance emission testing is required, US EPA Method 6, 6A or 6C shall be used to demonstrate compliance. [s. NR 439.06(1), Wis. Adm. Code, 01-RV-103]</p> <p>(2) The continuous sulfur dioxide emission monitor shall complete one cycle of sampling, analyzing and data recording for each successive 15-minute period. The values recorded shall be averaged hourly. Hourly averages shall be computed from 4 data points equally spaced over each 1 hour period, except during periods when calibration, quality assurance or maintenance activities are being performed. During these periods, a valid hour shall consist of at least 2 data points separated by a minimum of 15 minutes [s. NR 439.09(9)(b), Wis. Adm. Code, 01-RV-103].</p> <p>(3) The permittee shall submit quarterly excess emission reports to the Department within 30 days following the end of each reporting period<sup>13</sup>. Excess emissions for sulfur dioxide are any 24-hour rolling average during which the average sulfur dioxide emissions exceed 3.2 pounds of sulfur dioxide per million BTU heat input from any stack except during periods of normal startup and shutdown [s. NR 439.09(10), Wis. Adm. Code, 01-RV-103].</p> <p style="text-align: center;">- continued -</p> |

<sup>11</sup> From permit 01-RV-103.

<sup>12</sup> WE Energies is a major utility as defined in s. 285.41(1)(f), Wis. Stats. And the total sulfur dioxide emissions from all stationary air contaminant sources in this state under the ownership or control of WEPCO exceeded 5,000 tons in any year after 1979. Therefore, WEPCO is subject to s. 285.41(2)(a), which limits the average number of pounds of sulfur dioxide emissions per million Btu heat input from all the boilers under WEPCO's ownership or control to not more than 1.20.

<sup>13</sup> 45 days and semi-annual when the cooperative agreement (<http://www.dnr.state.wi.us/org/caer/cea/ecpp/agreements/wepco2/index.htm>) is in effect and when consistent with the SIP.

B. S14, B27/C07 and B28/C08 - Tangentially Fired Boilers, 2608 and 2568 mmBtu/hr heat input (installed 1965 and 1967). (Acid Rain Units 7 & 8).

| Pollutant   | a. Limitations | b. Compliance Demonstration  | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|---|----------------|--|---|
| <p>2. Sulfur Dioxide Emissions</p> <p>(continued)</p> |                | <p>(5) The permittee shall submit to the Department a quality control and quality assurance plan for the continuous carbon dioxide emission monitor and comply with the plan. [ss. NR 439.09(8), NR 439.095(6), Wis. Adm. Code, 01-RV-103]</p> <p>(6) The data obtained from the continuous monitoring system for the measurement of carbon dioxide in the flue gas shall be used to convert sulfur dioxide continuous emission monitoring data to units of the applicable emission limitation. [s. NR 439.095(5)(a)4., Wis. Adm. Code, 01-RV-103]</p> <p>(7) The permittee shall calibrate, maintain, and operate a continuous monitoring system for the measurement of stack flow rate. [s. NR 439.095(5)(f), Wis. Adm. Code, 01-RV-103]</p> <p>(8) The permittee shall calibrate, maintain, and operate the continuous stack flow rate emission monitor in accordance with the performance specifications in 40 CFR part 75, Appendices A to I. [s. NR 439.095(6), Wis. Adm. Code, 01-RV-103]</p> <p>(9) The permittee shall submit to the Department a quality control and quality assurance plan for the continuous stack flow rate emission monitor and comply with the plan.<sup>14</sup> [s. NR 439.095(6), Wis. Adm. Code, 01-RV-103]</p> | <p>(4) The excess emission reports required by condition I.B.2.c.(3) shall contain the information in condition I.H.1.b.(3). [s. NR 439.09(10)(a), Wis. Adm. Code, 01-RV-103]</p> <p>(5) The continuous carbon dioxide emission monitor shall complete one cycle of sampling, analyzing and data recording for each successive 15-minute period. The values recorded shall be averaged hourly. Hourly averages shall be computed from 4 data points equally spaced over each 1 hour period, except during periods when calibration, quality assurance or maintenance activities are being performed. During these periods, a valid hour shall consist of at least 2 data points separated by a minimum of 15 minutes. [s. NR 439.09(9)(b), Wis. Adm. Code, 01-RV-103]</p> |

<sup>14</sup> Permit 01-RV-103 required updating the existing plan to include the CO CEMs within 90 days after the monitor completed its performance specification certification testing in accordance with Part 75. The permittee was required to submit the updated QA/QC plan to the Department and follow the updated plan.

B. S14, B27/C07 and B28/C08 - Tangentially Fired Boilers, 2608 and 2568 mmBtu/hr heat input (installed 1965 and 1967). (Acid Rain Units 7 & 8).

| Pollutant   | a. Limitations   | b. Compliance Demonstration   | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|---|--|---|---|
| <p>3. Oxides of Nitrogen (NO<sub>x</sub>) Emissions</p> | <p>(1) No person may cause, allow or permit nitrogen oxides to be emitted from a boiler, owned or operated by a utility as defined in s. NR 409.02(84), Wis. Adm. Code with a maximum design heat input of 500 million Btu per hour or greater in excess of the most stringent of the following limits, as applicable, during the ozone season:</p> <p>(a) 0.29 pounds per million Btu of heat input on a 30-day rolling average basis, on or after December 31, 2005<sup>15</sup>,</p> <p>(b) 0.28 pounds per million Btu of heat input on a 30-day rolling average basis, on or after December 31, 2007.</p> <p>[s. NR 428.05(3)(a), Wis. Adm. Code and s. 285.65(3), Wis. Stats., s. 285.65(7), Wis. Stats., 01-RV-103]</p> | <p>(1) Nitrogen Oxide Emissions shall be controlled by the use of low NO<sub>x</sub> burners. [s. 285.65(7), Wis. Stats., s. 285.65(3), Wis. Stats., 01-RV-103]</p> <p>(2) The permittee shall calibrate, maintain, and operate a continuous monitoring system for the measurement of nitrogen oxides. [s. NR 439.095(5)(f), Wis. Adm. Code, 01-RV-103]</p> <p>(3) The permittee shall calibrate, maintain, and operate the continuous emission monitor in accordance with the performance specifications in 40 CFR part 75, Appendices A to I. [ss. NR 439.09(2), NR 439.095(6), Wis. Adm. Code]</p> <p>(4) Except as provided under s. NR 428.06(2), Wis. Adm. Code, each emissions unit shall demonstrate compliance with I.B.3.a.(1) on a per unit basis. [s. NR 428.06(1), Wis. Adm. Code]</p> <p>(5) The permittee shall comply with the provisions of s. NR 428.06(2), Wis. Adm. Code when entering into an agreement for trading excess nitrogen oxides emission reduction.<sup>16</sup> [s. 285.65(3), Wis. Stats., s. NR 428.06(2), Wis. Adm. Code, 01-RV-103]</p> <p>(6) The permittee shall determine the average NO<sub>x</sub> emission rate in pound per million Btu using the methods and procedures specified in 40 CFR part 75, Appendices A through I, incorporated by reference in s. NR 484.04(27), Wis. Adm. Code. [ss. NR 439.09(2), NR 439.095(6), Wis. Adm. Code, 01-RV-103]</p> | <p>(1) <i>Reference Test Method for Nitrogen Oxide Emissions:</i> Whenever compliance emission testing is required, US EPA Method 7 or an alternate method approved in writing by the Department shall be used to demonstrate compliance. [s. NR 439.06(1), Wis. Adm. Code, 01-RV-103]</p> <p>(2) The continuous emission monitor shall complete one cycle of sampling, analyzing and data recording for each successive 15-minute period. The values recorded shall be averaged hourly. Hourly averages shall be computed from 4 data points equally spaced over each 1 hour period, except during periods when calibration, quality assurance or maintenance activities are being performed. During these periods, a valid hour shall consist of at least 2 data points separated by a minimum of 15 minutes. [s. NR 439.09(9)(b), Wis. Adm. Code]</p> <p>(3) The permittee shall comply with the monitoring requirements under ss. NR 428.07, NR 428.08, Wis. Adm. Code. [s. 285.65(3), Wis. Stats., 01-RV-103]</p> <p>(4) The emissions measurements recorded and reported in accordance with ss. NR 428.07, NR 428.08, Wis. Adm. Code shall be used to demonstrate compliance of the NO<sub>x</sub> emission performance standards. [s. 285.65(3), Wis. Stats., 01-RV-103]</p> <p>(5) The permittee shall keep on site the following documents for a period of 5 years from the date the document is created:</p> <p>(a) All emissions monitoring information in accordance with ss. NR 428.07, NR 428.08, Wis. Adm. Code.</p> |

<sup>15</sup> Refer to the acid rain portion of this operation permit for additional limitations.

<sup>16</sup> The emission trading plan under s. NR 428.06(2), Wis. Adm. Code is SIP approved (<http://www.epa.gov/fedrgstr/EPA-AIR/2003/April/Day-10/a8536.htm>).

B. S14, B27/C07 and B28/C08 - Tangentially Fired Boilers, 2608 and 2568 mmBtu/hr heat input (installed 1965 and 1967). (Acid Rain Units 7 & 8).

| Pollutant  | a. Limitations | b. Compliance Demonstration  | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|--|----------------|--|---|
| <p>3. Oxides of Nitrogen (NO<sub>x</sub>) Emissions</p> <p>(continued)</p> |                | <p>(7)(a) The nitrogen oxide emissions per million Btu heat input from all units subject to the requirements of s. NR 428.05(3) under the common ownership or control may be averaged together for the purpose of determining compliance with the source's aggregate nitrogen oxide emissions limitations.<sup>17</sup></p> <p>(b) Total pounds of emissions shall be determined by continuous monitors that meet the requirements of 40 CFR part 60, Appendix B, incorporated by reference in s. NR 484.04(21), Wis. Adm. Code. [s. 428.06(1), Wis. Adm. Code, 01-RV-103]</p> | <p>(b) Copies of all reports, compliance certifications and other submissions and all records made or required under ss. NR 428.07, NR 428.08, Wis. Adm. Code. [s. NR 428.05(5), Wis. Adm. Code and s. 285.65(3), Wis. Stats., 01-RV-103]</p> <p>(6) Except as provided under (7), the permittee shall submit quarterly reports of emissions monitoring and compliance certification to the Department every quarter.</p> <p>(a) The time periods to be addressed by the submittal are January 1 to March 30 and April 1 to June 30 and July 1 to September 30 and October 1 to December 31.</p> <p>(b) The reports shall be submitted to the Southeast Region Air Program within 30 days after the end of each reporting period<sup>13</sup>.</p> <p>(c) Each submittal shall be certified by a responsible official as to the truth, accuracy and completeness of the report.</p> <p>[ss. NR 428.09(4), Wis. Adm. Code; s. NR 439.09(10), Wis. Adm. Code, 01-RV-103]</p> <p>(7) If the permittee complies with I.B.3.a.(1) through a unit ozone season NO<sub>x</sub> emissions averaging program under s. NR 428.06(2), Wis. Adm. Code, the permittee shall submit a compliance report meeting the requirements of s. NR 428.06(4)(i), Wis. Adm. Code, to the Department not later than 60 days after the last day of the ozone season. [s. NR 428.06(4)(i), Wis. Adm. Code]</p> |

<sup>17</sup> The averaging plan under s. NR 428.06(1), Wis. Adm. Code is SIP approved (<http://www.epa.gov/fedrgstr/EPA-AIR/2003/August/Day-29/a22050.htm>).

**B. S14, B27/C07 and B28/C08 - Tangentially Fired Boilers, 2608 and 2568 mmBtu/hr heat input (installed 1965 and 1967). (Acid Rain Units 7 & 8).**

| Pollutant                           | a. Limitations   | b. Compliance Demonstration   | c. Reference Test Methods, Recordkeeping and Monitoring Requirements   |
|-------------------------------------|--|---|--|
| <p>4. Carbon Monoxide Emissions</p> | <p>(1) Emissions may not exceed 715 pounds per hour (150 ppm<sub>dv</sub> corrected to 3% O<sub>2</sub>) per boiler based on a 30 day rolling average. The Stack S14 limit is 1,430 pounds per hour when both the boilers (B27 and B28) are operating and exhausting through the stack S14, and the limit is 715 pounds per hour when only one boiler (B27 or B28) is operating and exhausting through Stack S14. [s. 285.65(7), Wis. Stats. and s. 285.65(3), Wis. Stats., 01-RV-103]</p> | <p>(1) The permittee shall demonstrate compliance with the carbon monoxide emission limit as follows<sup>18</sup>:</p> <p>(a) Daily average shall be determined by calculating the arithmetic average of all hourly emission rates for CO for a calendar day.</p> <p>(b) The hourly emission rate shall be calculated by multiplying the CO concentration by the conversion constant, 0.7266 E-07, times the stack flow rate measurement consistent with the procedures specified in 40 CFR Part 75 Appendix F.</p> <p>(c) The 30 day rolling average is the arithmetic average of 30 contiguous daily averages rolled each day.</p> <p>[s. 285.65(3), Wis. Stats., 01-RV-103]</p> <p>(2) The permittee shall operate and maintain a continuous emissions monitoring system (CEMs) for CO<sup>19</sup>. Continuous emissions monitoring systems shall be installed, operated and certified in accordance with 40 CFR Part 60 Appendix B and s. NR 439.06(4), Wis. Adm. Code requirements unless an alternate or equivalent method is approved, or a specific method is required, in writing, by the Department. [s. 285.65(3), Wis. Stats.; s. NR 439.06, Wis. Adm. Code, 01-RV-103]</p> <p>(3) The permittee shall maintain a quality control and quality assurance plan that includes the carbon monoxide continuous emission monitor and comply with the plan<sup>20</sup>. [ss. NR 439.09(8), NR 439.095(6), Wis. Adm. Code, 01-RV-103]</p> | <p>(1) <i>Reference Test Method for Carbon Monoxide Emissions</i>: Whenever compliance emission testing is required, US EPA Method 10, or an alternate method approved in writing by the Department shall be used to demonstrate compliance. [s. NR 439.06(1), Wis. Adm. Code, 01-RV-103]</p> <p>(2) The continuous emission monitor shall complete one cycle of sampling, analyzing and data recording for each successive 15-minute period. The values recorded shall be averaged hourly. Hourly averages shall be computed from 4 data points equally spaced over each 1 hour period, except during periods when calibration, quality assurance or maintenance activities are being performed. During periods a valid hour shall consist of at least 2 data points separated by a minimum of 15 minutes [s. NR 439.09(9)(b), Wis. Adm. Code, 01-RV-103]</p> <p>(3) The permittee shall submit quarterly excess emission reports to the Department within 30 days following the end of each calendar quarter. Excess emissions for carbon monoxide are any 30 days rolling average during which the average carbon monoxide emissions exceed 715 pounds per hour (150 ppm<sub>dv</sub> corrected to 3% O<sub>2</sub>) per boiler based on the 30 days rolling average. [s. NR 439.09(10), Wis. Adm. Code, 01-RV-103]</p> <p>(4) The excess emission reports required by condition I.A.4.c.(3) shall contain the information in condition I.H.1.b.(3). [s. NR 439.09(10)(a), Wis. Adm. Code, 01-RV-103]</p> |

<sup>18</sup> Permit 01-RV-103 required compliance emission tests to be conducted within 90 days after the start of operation of the process to show compliance with the emission limitation.

<sup>19</sup> The CO CEM was installed and calibrated under permit 01-RV-103.

<sup>20</sup> The plan was required to be revised for the CO monitor under permit 01-RV-103.

B. S14, B27/C07 and B28/C08 - Tangentially Fired Boilers, 2608 and 2568 mmBtu/hr heat input (installed 1965 and 1967). (Acid Rain Units 7 & 8).

| Pollutant            | a. Limitations  | b. Compliance Demonstration   | c. Reference Test Methods, Recordkeeping and Monitoring Requirements   |
|----------------------|---|---|--|
| 5. Visible Emissions | <p>(1) Opacity may not exceed 20% except during periods of normal startup and shutdown. Normal startup and shutdown shall be defined in the startup and shutdown plan. [s. NR 431.04(2), 436.03(2)(b), Wis. Adm. Code, 01-RV-103]</p> | <p>(1) The permittee shall calibrate, maintain, and operate a continuous monitoring system for the measurement of opacity [ss. NR 439.095(5)(a)1., NR 439.095(5)(f), Wis. Adm. Code, 01-RV-103].</p> <p>(2) The permittee shall calibrate, maintain, and operate the continuous emission monitor in accordance with Performance Specification 1 in 40 CFR part 60, Appendix B. [s. NR 439.09(1), Wis. Adm. Code, 01-RV-103]</p> | <p>(1) <i>Reference Test Method for Visible Emissions:</i> Whenever compliance emission testing is required, US EPA Method 9 shall be used to demonstrate compliance. [s. NR 439.06(9)(a)1., Wis. Adm. Code, 01-RV-103]</p> <p>(2) The continuous emission monitor shall complete one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. [s. NR 439.09(9)(a), Wis. Adm. Code, 01-RV-103]</p> <p>(3) The permittee shall submit quarterly excess emission reports to the department within 30 days following the end of each reporting period<sup>13</sup>. Excess emissions for opacity are any 6-minute period during which the average opacity exceeds 20% except during periods of normal startup and shut down. [s. NR 439.09(10), Wis. Adm. Code, 01-RV-103]</p> <p>(4) The excess emission reports required by condition I.B.5.c.(3) shall contain the information in condition I.H.1.b.(3). [s. NR 439.09(10)(a), Wis. Adm. Code, 01-RV-103]</p> |

**B. S14, B27/C07 and B28/C08 - Tangentially Fired Boilers, 2608 and 2568 mmBtu/hr heat input (installed 1965 and 1967). (Acid Rain Units 7 & 8).**

| Pollutant                                  | a. Limitations  | b. Compliance Demonstration  | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|--|---|--|---|
| <p><b>6. Hazardous Air Emissions *</b></p> | <p>(1) Boiler chemical cleaning waste liquid may be burned in the tangentially fired boilers without prior Department approval at NR 445 pollutant concentrations in the liquid below: chromium +3 compounds as Cr, 14 mg/lit; chromium +6 compounds as Cr, water soluble, 1.4 mg/lit; calcium, 55.7 mg/lit; nickel, 795 mg/lit. Boiler chemical cleaning waste liquid containing aluminum, copper and iron may be burned in the boilers without prior approval of the Department.<sup>21</sup> [s. NR 445.05(1), (3) and (4), Wis. Adm. Code, 01-RV-103] *</p> <p>(2) Total waste volume incinerated in all boilers in this facility may not exceed 125,000 gallons per year.<sup>21</sup> [s. NR 445.05(1), (3) and (4), Wis. Adm. Code, 01-RV-103] *</p> <p>(3) Waste injection rate in all the boilers in this facility may not be more than 80 gallons per minute.<sup>21</sup> [s. 285.65(7), Wis. Stats., 01-RV-103] *</p> | <p>(1) The permittee shall analyze representative samples of boiler chemical cleaning wastes to be burned in the boilers for the presence of NR 445 compounds. [s. NR 407.09(4)(a)1., Wis. Adm. Code, 01-RV-103] *</p> <p>(2) If any of the limitations in I.A.6.a. are exceeded or if any NR 445 compounds not listed in I.A.6.a., are present, the permittee shall inform the Department 21 days before any boiler cleaning wastes are to be burned. [s. NR 407.09(4)(a)1., Wis. Adm. Code, 01-RV-103] *</p> | <p>(1) The permittee shall use the test methods listed in s. NR 605.11, Wis. Adm. Code, or 40 CFR part 261, Appendix II to determine the concentration of the compounds listed in I.A.6.a.(1), in representative samples from boiler chemical cleaning waste liquids to be burned in the boilers. [s. NR 439.06(8), Wis. Adm. Code, 01-RV-103] *</p> <p>(2) The permittee shall keep written records of all of the items (a) through (e):</p> <ul style="list-style-type: none"> <li>(a) The date of the incineration and in which boiler the waste is burned;</li> <li>(b) The solvent used to clean boilers;</li> <li>(c) The volume of boiler chemical cleaning waste liquids burned;</li> <li>(d) The analysis required by condition I.A.6.b.(1) for all boiler chemical cleaning waste liquids burned in the boiler;</li> <li>(e) The injection rate of the boiler chemical cleaning waste liquid and the length of time incineration was performed.</li> </ul> <p>[s. NR 439.04(1)(d), Wis. Adm. Code, 01-RV-103] *</p> |

<sup>21</sup> These conditions are based on WEPCO's proposed evaporation of non-hazardous boiler cleaning wastes at the Oak Creek Power Plant which was approved by the Department in a letter dated December 11, 1996.



C. S15, P30 – Gas Turbine Generator (simple cycle) rated at 405.6 mmBtu/hr heat input (1968).

| Pollutant                       | a. Limitations  | b. Compliance Demonstration  | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|---------------------------------|---|--|---|
| 1. Particulate Matter Emissions | <p>(1) Emissions may not exceed 0.05 pounds particulate matter emissions per million BTU heat input. [s.285.65(7), Stats.]<sup>22</sup></p> <p>(2) The permittee shall limit the hours of operation of the Gas Turbine Generator to 397 hours per calendar month as determined by an average over any 12 consecutive calendar months [ss. 285.65(3), Wis. Stats., s. NR 407.09(1)(a), Wis. Adm. Code].</p> <p>(3) The gas turbine shall only use natural gas fuel. [s. 285.65(7), Stats.]</p> | <p>(1) The permittee shall determine the hours of operation of the Gas Turbine Generator. The hours of operation may be determined from production records or other plant data. [s. NR 407.09(4)(a)3.b., Wis. Adm. Code]</p> | <p>(1) <i>Reference Test Method for Particulate Matter Emissions:</i> Whenever particulate matter emission testing is required, the permittee shall use U.S. EPA Method 5 or Method 17 including condensible backhalf emissions (U.S. EPA Method 202). [s. NR 439.06(1), Wis. Adm. Code]</p> <p>(2) The permittee shall maintain monthly records satisfactory to demonstrate compliance with the 397 hour per calendar month as determined by an average over any 12 consecutive calendar months potential to emit limitation [s. NR 407.09(4)(a)1., Wis. Adm. Code].</p> |
| 2. Visible Emissions            | <p>(1) Emissions of shade or density may not exceed number 1 of the Ringlemann chart or 20% opacity. [ s. NR 431.04(2), Wis. Adm. Code]</p>   | <p>(1) Refer to I.C.1.b.(1) for additional requirements.</p>   | <p>(1) <i>Reference Test Method for Visible Emissions:</i> Whenever visible emission testing is required, the permittee shall use U.S. EPA Method 9. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p> <p>(2) Refer to I.C.1.c.(1) for additional requirements.</p>  |

<sup>22</sup> Limit requested by applicant June 7, 2002

- D. S16, F01 - Reclaim Coal Storage Pile, Constructed or last modified in 1968.  
 S17, F02 - Outdoor Storage Pile at Coal Dock, Constructed or last modified in 1953<sup>1</sup>.

| Pollutant                            | a. Limitations  | b. Compliance Demonstration  | c. Reference Test Methods, Recordkeeping and Monitoring Requirements   |
|--------------------------------------|---|--|--|
| 1. Particulate Matter Emissions      | (1) The permittee may not cause, allow or permit any materials to be handled, transported or stored without taking precautions to prevent particulate matter from becoming airborne [s. NR 415.04, Wis. Adm. Code]. | (1) The permittee shall apply water or suitable chemicals on the coal pile provided such application does not create a hydrocarbon, odor or water pollution problem. As an alternative, the permittee shall compact, groom and shape the coal pile to minimize the formation of airborne particulate matter [ss. NR 415.04(1)(a), 407.09(4)(a)3.b., Wis. Adm. Code]. | (1) The permittee shall maintain on site records which describe the precautions taken to prevent particulate matter from becoming airborne and the dates on which these precautions were taken [ss. NR 407.09(1)(c)1.b., NR 407.09(4)(a)1., Wis. Adm. Code]. |
| 2. Visible Emissions                 | (1) Emissions of shade or density may not exceed number 1 of the Ringlemann chart or 20% opacity. [s. NR 431.04(2), Wis. Adm. Code]   | (1) Refer to I.D.1.b.(1) for additional requirements.  | (1) <i>Reference Test Method for Visible Emissions:</i> Whenever visible emission testing is required, the permittee shall use U.S. EPA Method 9. [s. NR 439.06(9)(a)1., Wis. Adm. Code]   |
| 3. Hazardous Air Pollutant Emissions | Refer to I.H.6 for additional requirements  | Refer to I.H.6 for additional requirements   | Refer to I.H.6 for additional requirements   |

E. S18, F03 - In-Plant Coal Transfer<sup>2</sup>

| Pollutant                       | a. Limitations   | b. Compliance Demonstration  | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|---------------------------------|--|--|---|
| 1. Particulate Matter Emissions | (1) The permittee may not cause, allow, or permit any materials to be handled, transported, or stored without taking precautions to prevent particulate matter from becoming airborne. [NR 415.04, Wis. Adm. Code] | (1) The permittee shall prepare a Fugitive Dust Control Plan which includes details describing the protocols for periodic inspections, criteria for actions to be taken and recordkeeping. [s. NR 439.06(8), Wis. Adm. Code]<br><br>(2) During the operation of the in-plant coal transfer system (railcar unloading, crushing and conveying) the permittee shall:<br><br>(a) Perform periodic inspections to determine if fugitive dust emissions are occurring at the in-plant coal transfer processes;<br><br>(b) Take corrective measures in accordance with the fugitive dust plan to prevent airborne particulate matter.<br>[s. NR 439.06(8), Wis. Adm. Code] | (1) <i>Reference Test Method for Fugitive Dust Emissions:</i> Whenever compliance emission testing is required, Method 22 shall be used to demonstrate compliance. [s. NR 439.06(9)(b), Wis. Adm. Code]<br><br>(2) The permittee shall maintain records of the precautions taken to minimize particulate matter from becoming airborne and the dates when the precautions are taken. [s. NR 439.04(1)(d), Wis. Adm. Code] |
| 2. Visible Emissions            | (1) Emissions of shade or density may not exceed number 1 of the Ringlemann chart or 20% opacity. [s. NR 431.04(2), Wis. Adm. Code]  | (1) Refer to I.E.1.b.(1) and(2) for applicable requirements.   | (1) <i>Reference Test Method for Visible Emissions:</i> Whenever visible emission testing is required, the permittee shall use U.S. EPA Method 9. [s. NR 439.06(9)(a)1., Wis. Adm. Code]  |

F. S19, F04 - Ash Handling System

| Pollutant                              | a. Limitations  | b. Compliance Demonstration  | c. Reference Test Methods, Recordkeeping and Monitoring Requirements   |
|--|---|--|--|
| <p>1. Particulate Matter Emissions</p> | <p>(1) The permittee may not cause, allow, or permit any materials to be handled, transported, or stored without taking precautions to prevent particulate matter from becoming airborne. [NR 415.04, Wis. Adm. Code]</p> | <p>(1) The permittee shall reduce particulate matter emissions from the fly ash handling process through operation of emissions control systems. If a fabric filter is used as an emissions control system, the permittee shall operate and maintain the filter according to manufacturer’s specifications and good engineering practice as established by operating history, any time the fly ash handling process is in operation. [s. 285.65, Stats., s. NR 439.11(4), Wis. Adm. Code]</p> <p>(2) The permittee may load <b>fly ash</b> into either enclosed or open trucks<sup>23</sup>.</p> <p>(a) For enclosed trucks, the loading port shall be tightly fitted and not allow particulate matter to be emitted to the ambient air.</p> <p>(b) For open trucks, the permittee shall ensure that the moisture content of the ash is sufficient to prevent particulate matter from being emitted to the ambient air during truck loading. [s. 285.65, Stats., s. NR 439.11(4), Wis. Adm. Code]</p> <p>(3) The permittee may load <b>bottom ash</b> into either enclosed or open trucks.</p> <p>(a) For enclosed trucks, the loading port shall be tightly fitted and not allow particulate matter to be emitted to the ambient air.</p> <p>(b) For open trucks, the permittee shall ensure that the moisture content of the ash is sufficient to prevent particulate matter from being emitted to the ambient air during truck loading. [s. 285.65, Stats., s. NR 439.11(4), Wis. Adm. Code]</p> <p style="text-align: center;">- continued -</p> | <p>(1) <i>Reference Test Method for Fugitive Dust Emissions</i>: Whenever compliance emission testing is required, US EPA Method 9 and/or Method 22, whichever is appropriate, shall be used to demonstrate compliance. [s. NR 439.06(9)(a)1., Wis. Adm. Code]</p> <p>(2) The permittee shall keep the daily records of the visual observations required by I.F.1.b.(4) that include:</p> <p>(a) The date and time of the inspection;</p> <p>(b) The initials of the person conducting the inspection;</p> <p>(c) The results of the inspection; and</p> <p>(d) A description of any corrective action performed as a result of the inspection. [s. NR 439.04(1)(d), Wis. Adm. Code]</p> |

<sup>23</sup> Currently only unit 7 uses wet fly-ash loading to open trucks.

F. S19, F04 - Ash Handling System

| Pollutant  | a. Limitations  | b. Compliance Demonstration  | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|--|---|--|---|
| 1. Particulate Matter Emissions<br><br>(continued) |   | (4) During operation of the fly ash handling system, the permittee shall perform daily visual observations to determine if fugitive dust emissions are occurring at the fly ash handling process(es); and if this is the case, the permittee shall take corrective measures to prevent airborne particulate matter. [s. 285.65, Stats., s. NR 439.11(4), Wis. Adm. Code] |   |
| 2. Visible Emissions                               | (1) Emissions of shade or density may not exceed number 1 of the Ringlemann chart or 20% opacity. [s. NR 431.04(2), Wis. Adm. Code] | (1) Refer to I.F.1.b.(1) through (4) for applicable requirements.  | (1) <i>Reference Test Method for Visible Emissions</i> : Whenever visible emission testing is required, the permittee shall use U.S. EPA Method 9. [s. NR 439.06(9)(a)1., Wis. Adm. Code] |

G. P31 - S114 - Fly Ash Storage Facility

| Pollutant   | a. Limitations  | b. Compliance Demonstration   | c. Reference Test Methods, Recordkeeping and Monitoring Requirements   |
|---|---|---|--|
| <p>1. Particulate Matter (PM<sub>10</sub>) Emissions<sup>24</sup></p> | <p>(1) Emissions may not exceed 0.35 pounds per hour from stack S114. [ss. NR 415.05(1)(c) and NR 415.05(2), Wis. Adm. Code and ss. 285.65(3) and 285.65(7), Wis. Stats., 02-RV-054]</p> <p>(2) Stack Parameter Requirements<sup>25</sup></p> <p>(a) The stack (S114) height shall be at least 40.0 feet above ground level.</p> <p>(b) The stack (S114) inside diameter at the outlet may not exceed 16 inches<sup>26</sup>.</p> <p>(c) The stack may not be equipped with a rainhat or other device that may impede the upward velocity of the exhaust gas. [s. 285.65(3), Wis. Stats. and s. NR 406.10, Wis. Adm. Code, 02-RV-054]</p> <p>(3) The fly ash storage facility shall receive fly ash either by bulk tanker truck or fully enclosed pneumatic conveyors.<sup>27</sup> [s. 285.65(3), Wis. Stats., 02-RV-054]</p> <p>(4) The bulk truck loading be done in a fully enclosed structure.<sup>27</sup> [s. 285.65(3), Wis. Stats., 02-RV-054]</p> | <p>(1) The permittee shall maintain<sup>28</sup> monitoring devices for measuring the pressure drop across the baghouses used to control emissions from process line exhausting through stack S114. [s. NR 430.055(1), Wis. Adm. Code]</p> <p>(2) The operating pressure drop across the baghouse shall be maintained between 1-5 inches of water gauge pressure. [s. NR 407.09(1)(a), Wis. Adm. Code, 02-RV-054]</p> <p>(3) The permittee shall measure and record the operating pressure drop across the baghouse once per shift when process P31 is in operation. [s. NR 439.055, Wis. Adm. Code, 02-RV-054]</p> | <p>(1) The permittee shall maintain records of the pressure drop measurements of I.G.1.b.(3). [s. NR 439.04, Wis. Adm. Code and s.285.65(3), Wis. Stats., 02-RV-054]</p> <p>(2) The facility shall maintain and implement a Malfunction, Prevention and Abatement Plan for the baghouse. The plan shall include the following:</p> <p>(a) installation, maintenance and routine calibration procedures for the control equipment instrumentation;</p> <p>(b) a requirement that instrumentation calibration shall take place at the frequency specified by the manufacturer but not less than once per year plus an inspection and/or calibration whenever instrumentation anomalies are noted;</p> <p>(c) a requirement that a copy of the operation and maintenance manual for the control equipment be maintained on site;</p> <p>(d) a maintenance schedule for the equipment based on the manufacturer's recommendations, but at intervals no less frequent than once per year; and</p> <p>(e) a copy of the plan shall be kept at the plant. [s. NR 439.11, Wis. Adm. Code, 02-RV-054]</p> <p>(3) Whenever compliance testing for particulate matter/PM<sub>10</sub> emissions is required, USEPA Method 5A and 202 shall be used. [s. NR 439.06(1m), Wis. Adm. Code, 02-RV-054]</p> <p>(4) The facility shall keep and maintain on site technical drawings, blueprint or equivalent records of the physical stack parameters. [s. NR 439.06(3)(a), Wis. Adm. Code, 02-RV-054]</p> |

<sup>24</sup> From permit 02-RV-054

G. P31 - S114 - Fly Ash Storage Facility

| Pollutant            | a. Limitations   | b. Compliance Demonstration                               | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|----------------------|--|---|---|
| 2. Visible Emissions | (1) Emissions of shade or density may not exceed number 1 of the Ringlemann chart or 20% opacity. [s. NR 431.04(2), Wis. Adm. Code, 02-RV-054] | (1) Refer to I.G.1.b.(1)-(3) for additional requirements. | (1) <i>Reference Test Method for Visible Emissions</i> : Whenever visible emission testing is required, the permittee shall use U.S. EPA Method 9. [s. NR 439.06(9)(a)1., Wis. Adm. Code, 02-RV-054]<br><br>(2) Refer to I.G.1.c.(1) - (2) for additional requirements. |

<sup>25</sup> These requirements are included because the source was reviewed with these stack parameters and it was determined that no increments or ambient air quality standards will be violated when constructed as proposed.

<sup>26</sup> Increased diameter and pressure drop change noted in letter (White, 1/26/2005)

<sup>27</sup> These conditions are established to ensure no fugitive dust are generated by the fly ash storage facility's operation. Also based on these conditions no emissions are expected from the equipment used to transfer material to and from the fly ash storage facility.

<sup>28</sup> Permit 02-RV-054 required installation of the monitoring device.

H. Conditions Applicable to the Entire Facility.

| Condition Type   | a. Condition   | b. Compliance Demonstration  |
|--|--|--|
| <p><b>1. Compliance Reports/Records</b></p> <p style="text-align: right;"><i>-continued-</i></p> | <p>(1) Upon issuance of the operation permit, the permittee shall submit periodic monitoring reports.<br/>[s. NR 407.09(1)(c)3., Wis. Adm. Code]</p> <p>(2) Upon issuance of the operation permit, the permittee shall submit periodic certification of compliance.<br/>[s. NR 407.09(4)(a)3., Wis. Adm. Code]</p> <p>(3) The records required under this permit shall be retained for at least five (5) years and shall be made available to department personnel upon request during normal business hours.<br/>[s. NR 439.04, s. NR 439.05, Wis. Adm. Code]</p> | <p>(1) The permittee shall submit a monitoring report which contains the results of monitoring or a summary of monitoring results required by this permit to the Department every 6 months.</p> <p>(a) The time periods to be addressed by the submittal are January 1 to June 30 and July 1 to December 31.</p> <p>(b) The report shall be submitted to the Wisconsin Department of Natural Resources Southeast Region Headquarters, 2300 North Dr. Martin Luther King Jr. Drive, Milwaukee, WI, 53212-0436 within 45 days after the end of each reporting period.</p> <p>(c) All deviations from and violations of applicable requirements shall be clearly identified in the submittal.</p> <p>(d) Each submittal shall be certified by a responsible official as to the truth, accuracy and completeness of the report.</p> <p>(e) The content of the submittal is described in item D. of Part II of the operation permit.<br/>[s. NR 439.03(1)(b), Wis. Adm. Code]</p> <p>(2) The permittee shall submit an annual certification of compliance with the requirements of this permit to the Wisconsin Department of Natural Resources Southeast Region Headquarters, 2300 North Dr. Martin Luther King Jr. Drive, Milwaukee, WI, 53212-0436 and to Compliance Data – Wisconsin, Air and Radiation Division, US EPA, 77 W. Jackson, Chicago, IL 60604.</p> <p>(a) The time period to be addressed by the report is the January 1 to December 31 period which precedes the report.</p> <p>(b) The report shall be submitted to the Wisconsin Department of Natural Resources Southeast Region Headquarters, 2300 North Dr. Martin Luther King Jr. Drive, Milwaukee, WI, 53212-0436 and to US EPA within 45 days after the end of each reporting period.</p> <p>(c) The information included in the report shall comply with the requirements of Part II, Section N of this permit.</p> <p>(d) Each report shall be certified by a responsible official as to the truth, accuracy and completeness of the report.<br/>[s. NR 439.03(1)(c), Wis. Adm. Code]</p> |



H. Conditions Applicable to the Entire Facility.

| Condition Type   | a. Condition | b. Compliance Demonstration   |
|--|--------------|---|
| <p><b>1. Compliance Reports/Records</b><br/><i>(continued)</i></p> |              | <p>(3) The owner or operator of a continuous emissions monitoring system shall submit quarterly excess emission reports to the department within 30 days following the end of each reporting period in accordance with pars. (a) to (d). The owner or operator shall submit either a full excess emission report under par. (a) or a summary excess emission report under par. (d), as specified in writing by the department.</p> <p>(a) The full excess emission reports required under this subsection shall contain the following information:</p> <ul style="list-style-type: none"> <li>(i) The date and starting and ending times or duration of each period of excess emissions and the magnitude of the emissions.</li> <li>(ii) The periods of excess emissions that occur during startups, shutdowns, soot blowing, control equipment malfunction, process malfunction, fuel problems, other known causes or for unknown causes. The report shall identify the cause of any malfunction and the measures taken to reduce excess emissions.</li> <li>(iii) The date and starting and ending time of any period during which the monitoring system was inoperative for any reason or causes, including monitor malfunction or calibration, except for zero and span checks. The report shall identify the repairs or adjustments made to the system.</li> <li>(iv) The date and starting and ending time of any period during which the process being monitored was inoperative.</li> <li>(v) When no period of excess emissions occurred during the quarter and the monitoring system had no period of downtime, an excess emissions report shall be filed stating that information.</li> </ul> <p>(b) Unless otherwise specified by the department, in the reports required under this subsection, periods of excess emissions shall be reported as follows:</p> <ul style="list-style-type: none"> <li>(i) For opacity, any 6-minute period during which the average opacity exceeds the applicable emission limit.</li> <li>(ii) For sulfur dioxide, any 24-hour rolling average during which the average sulfur dioxide emissions exceed the applicable emission limitation.</li> </ul> <p>(c) For purposes of reporting exceedances on the basis of a 24-hour rolling average under this subsection, any hourly average may be included in only one 24-hour period. An exceedance shall be based on at least 18 and not more than 24 valid recordings of hourly average emission rates in any 24 hour period.</p> <p>(d) The summary excess emission report shall be submitted on a form provided by the department or in a format approved by the department.</p> <p>[s. NR 439.09(10), Wis. Adm. Code]</p> |

H. Conditions Applicable to the Entire Facility.

| Condition Type   | a. Limitations  | b. Compliance Demonstration   | c. Reference Test Methods, Recordkeeping and Monitoring Requirements  |
|--|---|---|---|
| <p><b>2. Malfunction Prevention and Abatement Plan</b></p> | <p>(1) A malfunction prevention and abatement plan shall be prepared and followed for the plant.<br/>[s. NR 439.11, Wis. Adm. Code]</p> <p>(2) All air pollution control equipment shall be operated and maintained in conformance with good engineering practices (i.e. operated and maintained according to manufacturer’s specifications and directions) to minimize the possibility for the exceedance of any emission limitations.<br/>[s. NR 439.11(4), Wis. Adm. Code]</p> | <p>(1) The malfunction prevention and abatement plan shall be developed to prevent, detect and correct malfunctions or equipment failures which may cause any applicable emissions limitation to be violated or which may cause air pollution.<br/>[s. NR 439.11(1), Wis. Adm. Code]</p> <p>(2) This malfunction prevention and abatement plan shall include installation, maintenance and routine calibration procedures for the process monitoring and control equipment instrumentation. This plan shall require an instrumentation calibration at the frequency specified by the manufacturer, yearly or at a frequency based on good engineering practice as established by operational history, whichever is more frequent. Inspection and calibration shall also be conducted whenever instrumentation anomalies are noted.<br/>[ss. NR 407.09(1)(c)1.c., NR 439.055(4) and s. NR 439.11, Wis. Adm. Code]</p> <p>(3) The malfunction prevention and abatement plan shall require a copy of the operation and maintenance manual for the control equipment to be maintained on site. The plan shall contain all of the elements in s. NR 439.11(1)(a) – (h), Wis. Adm. Code.<br/>[s. NR 439.11, Wis. Adm. Code]</p> | <p>(1) A written copy of the malfunction prevention and abatement plan shall be kept at the plant.<br/>[s. NR 439.11(1), Wis. Adm. Code]</p> <p>(2) The facility shall maintain an inventory of normal consumable items necessary to ensure operation of the control device(s) in conformance with the manufacturer’s specifications and recommendations.<br/>[s. NR 439.11, Wis. Adm. Code]</p> <p>(3) The facility shall maintain records of the instrumentation calibrations.<br/>[s. NR 439.04, Wis. Adm. Code]</p> |

H. Conditions Applicable to the Entire Facility.

| Condition Type                               | a. Conditions  |
|--|--|
| <p><b>3. Stack Testing Requirements.</b></p> | <p>(1) If the compliance emission test(s) cannot be conducted within the time frames specified in this permit, the permit holder may request and the Department may approve, in writing, an extension of time to conduct the test(s).<br/>[s. NR 439.07, Wis. Adm. Code]</p> <p>(2) All testing shall be performed with the emissions unit operating at capacity or as close to capacity as practicable and in accordance with approved procedures. If operation at capacity is not feasible, the source shall operate at a capacity level which is approved by the Department in writing.<br/>[s. NR 439.07(1), Wis. Adm. Code]</p> <p>(3) The Department shall be informed at least 20 working days prior to any stack testing so a Department representative can witness the testing. At the time of notification, a compliance emission test plan shall also be submitted to the Department. When approved in writing, an equivalent test method may be substituted for the reference test method. The notification and test plan shall be submitted to the Wisconsin Department of Natural Resources Southeast Region Headquarters, 2300 North Dr. Martin Luther King Jr. Drive , Milwaukee, WI, 53212-0436.<br/>[ss. NR 439.07(1), 439.07(2), Wis. Adm. Code]</p> <p>(4) Two copies of the report on the tests shall be submitted to the Department for evaluation within 60 days following the tests.<br/>[s. NR 439.07(9), Wis. Adm. Code]</p> |

H. Conditions Applicable to the Entire Facility.

| Condition Type   | a. Conditions   |
|--|---|
| <p><b>4. Actual Emissions Report<sup>29</sup>.</b></p> | <p>(1) The permittee maintain and submit to the Department on an annual basis for a period of 5 years from the date the unit resumes regular operation, information demonstrating that the physical or operational change did not result in an emission increase. The annual data reporting for the first year of the five year period will begin in 2004 for year 2003. The period to be included is from April 1 to March 31 and shall be submitted to by April 30. [s. NR 405.02(1)(d), Wis. Adm. Code., s. NR 408.02(1)(c), Wis. Adm. Code., s. 285.65(3), Wis. Stats., 01-RV-103]</p> <p>(2) (a) The permittee may exclude in calculating any increase in emissions that results from the particular physical change or change in the method of operation at an electric utility steam generating unit, that portion of the unit's emissions following the change that could have been accommodated during the representative baseline period and is attributable to an increase in projected capacity utilization at the unit that is unrelated to the particular change, including any increased utilization due to the rate of electricity demand growth for the utility system as a whole [s. 405.02(25s)(b), Wis. Adm. Code, s. NR 408.02(30)(b), Wis. Adm. Code, s. 285.65(3), Wis. Stats., 01-RV-103]</p> <p>(b) The permittee shall provide this information as to how much emission was due to the increased utilization due to the rate of electricity demand growth and how was that determined. [s. 285.65(3), Wis. Stats., 01-RV-103]</p> |

<sup>29</sup> From 01 RV 103

**H. Conditions Applicable to the Entire Facility.**

| Condition Type  | a. Conditions  |
|---|--|
| <p><b>5. Compliance Assurance Monitoring (CAM) Requirements</b></p> | <p>(1) The permittee shall comply with the following provisions from the CAM plan<sup>30</sup> for boilers: B25 &amp; B26 (Units 5 &amp; 6) and B27 &amp; B28 (Units 7 &amp; 8).</p> <p>(a) The permittee shall monitor stack opacity using a continuous opacity monitoring system (COMS) at the common stack of each set of boilers in accordance with provisions I.A.2.b.(1) through (2), and I.B.5.b.(1) through (2).</p> <p>(b) The COMS shall record data in accordance with provisions I.A.2.c.(1), and I.B.5.c.(2).</p> <p>(c) The COMS data shall be reduced to one-hour block averages<sup>31</sup>.</p> <p>(d) The permittee shall take corrective action<sup>32</sup> when stack opacity is greater than 20% for a one-hour average period, except during periods of startup or shutdown.</p> <p>(e) The permittee shall record as an excursion, measured stack opacity greater than 20% for any three consecutive one-hour average periods, except during periods of startup, shutdown or malfunction.</p> <p>[s. 285.65(13), Wis. Stats., 40 CFR 64.2, and 40 CFR 64.3]</p> <p>(2) The permittee shall develop and implement a written quality improvement plan (QIP) if the required monitoring shows an accumulation of excursions of the indicator ranges established in the CAM plan in excess of 9 during a semiannual monitoring period. [The semiannual monitoring periods are specified in provision I.H.1.b.(1)(a).] The QIP shall contain the elements listed in 40 CFR 64.8(b). [s. 285.65(13), Wis. Stats. and 40 CFR 64.8(a)]</p> <p>(3) The permittee shall report the following items in the semiannual monitoring report required by provision I.H.1.b.(1).</p> <p>(a) the number of excursions, duration of excursions, cause of excursions, and the corrective actions taken for each excursion;</p> <p>(b) the number, duration, and cause for monitor downtime incidents.</p> <p>[s. 285.65(13), Wis. Stats. and 40 CFR 64.9]</p> <p>Note: Implementation of a QIP shall not excuse the permittee from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that applies under federal, state, or local law, or any other applicable requirement of the Clean Air Act.</p> |

<sup>30</sup> Dated 8/28/2003 prepared for WE Energies by RMB Consulting & Research, Inc.

<sup>31</sup> One-hour block averages are to mean clock hours (i.e. the block starts at the top of the hour)

<sup>32</sup> *Corrective action* shall begin with an inspection of the COMS. If it is determined that the opacity monitor readings are accurate, then corrective action shall continue with a determination as to which of the two units serving the common stack triggered the corrective action event.

H. Conditions Applicable to the Entire Facility.

| Condition Type                                | a. Conditions  |
|---|--|
| <p><b>6. Handling and Storage of Coal</b></p> | <p>(1) <i>Requirements For Outdoor Fugitive Coal Dust Emissions.</i> No later than June 30, 2007, the permittee shall do all of the following:</p> <ul style="list-style-type: none"> <li>(a) Have the ability to control, in a timely manner, outdoor fugitive coal dust emissions to prevent emissions off the source property.</li> <li>(b) Develop and implement a plan to control outdoor fugitive coal dust emissions to prevent emissions off the source property. The plan shall include all of the following:                             <ul style="list-style-type: none"> <li>1. Identification of all sources of outdoor fugitive coal dust emissions from coal handling and coal storage piles on the source property.</li> <li>2. A description of the measures that can be taken to control, in a timely manner, outdoor fugitive coal dust emissions from all sources identified under subd. 1. under the following conditions:                                     <ul style="list-style-type: none"> <li>a. Routine operations.</li> <li>b. Periods of high activity.</li> <li>c. Periods of increased probability of outdoor fugitive dust emissions.</li> <li>d. When equipment used to control outdoor fugitive coal dust emissions malfunctions.</li> </ul> </li> </ul> </li> <li>(c) Keep records of actions taken to control outdoor fugitive coal dust emissions in accordance with s. NR 439.04(2), Wis. Adm. Code.</li> <li>(d) Keep a copy of the plan and records of all actions taken at the facility.<br/>[s. NR 445.10(2), Wis. Adm. Code]</li> </ul> <p>(2) <i>Requirements For Non-Fugitive Coal Dust Emissions To The Ambient Air.</i> No later than June 30, 2007, the permittee shall, for any non-fugitive source of coal dust emissions exhausted through a fabric filter to the ambient air, do one of the following:</p> <ul style="list-style-type: none"> <li>(a) Limit visible emissions from each source to 10% opacity.</li> <li>(b) Limit the quantity, concentration or duration of potential to emit emissions of respirable coal dust from all sources so that ambient air concentration off the source property is less than 21.6 µg/m<sup>3</sup> for any 24 hour averaging period. The permittee may rely on information generated by either the EPA screening or refined dispersion model to demonstrate compliance.<br/>[s. NR 445.10(3), Wis. Adm. Code]</li> </ul> <p>(3) <i>Compliance Certification.</i> No later than June 30, 2007, the permittee shall certify the source's compliance status<sup>33</sup>.<br/>[s. NR 445.10(3), Wis. Adm. Code]</p> |

<sup>33</sup> Certification forms may be obtained from, and submitted to: Wisconsin Department of Natural Resources, Bureau of Air Management, PO Box 7921, Madison WI 53707-7921, Attention: NR 445 Certification form for handling and storage of coal.

I. Specific Conditions Applicable to WE Energies.

| Condition Type  | a. Limitations  | b. Compliance Demonstration   | c. Reference Test Methods, Recordkeeping and Monitoring Requirements   |
|---|---|---|--|
| <p>1. Sulfur Dioxide *</p> <p>(Continued on Next Page...)</p> | <p><b>(1) Corporate Emission Limitation:</b> The average number of pounds of sulfur dioxide emissions per million British thermal unit of heat input from all boilers under the ownership or control of WE Energies for any calendar year may not exceed 1.20. [s. 285.41(2)(a), Wis. Stats.] *</p> | <p><b>(1) Annual Compliance Plan</b> - Each year WE Energies shall prepare an annual plan for achieving compliance with the emission rate under condition I.I.1.a.(1) that includes, at a minimum:</p> <p>(a) The WE Energies expected electricity demand;</p> <p>(b) The WE Energies annual operation plan;</p> <p>(c) The expected operation characteristics of each boiler, including:</p> <p>(i) The order to be used in placing the boilers into operational production;</p> <p>(ii) The planned maintenance schedule for each boiler;</p> <p>(iii) How any maintenance is expected to affect the methods of meeting electricity demands;</p> <p>(iv) The amount of coal and other fossil fuels or other materials to be used for each boiler in operational production;</p> <p>(v) The sulfur content (in pounds of sulfur dioxide per million BTU of heat input) of coal and other fossil fuels or other materials to be used for each boiler in operational production;</p> <p>(vi) The anticipated sulfur dioxide emissions from each boiler;</p> <p>(vii) Contingency plans for unexpected events or increased demand including a summary of generation costs and the anticipated additional costs for reducing sulfur dioxide emissions under those circumstances;</p> <p>(viii) The methods that will be used to achieve compliance with condition I.I.1.a.(1) in the following year including, if applicable, the provisions of any trading agreement under s. 285.41(2)(b)1., Wis. Stats.;</p> <p>(ix) The total anticipated annual sulfur dioxide emissions from all boilers under the ownership or control of the WE Energies for each of the next 3 years.</p> <p>[s. 285.41(3)(a), Wis. Stats.] *</p> <p><b>(2)</b> WE Energies shall prepare an annual sulfur dioxide emission summary which outlines compliance status with condition I.I.1.a.(1) for each calendar year. [s. 285.41(6), Wis. Stats.] *</p> | <p><b>(1)</b> WE Energies shall submit a copy of the Annual Compliance Plan required by condition I.I.1.b.(1) on or before October 1 of each year for the following calendar year to:</p> <p>(a) The Wisconsin Department of Natural Resources, Bureau of Air Management, Combustion Process Section, 101 South Webster Street, P.O. Box 7921, Madison, WI 53707; and</p> <p>(b) The Wisconsin Public Service Commission, 610 North Whitney Way, Madison, WI 53705.</p> <p>[s.285.41(3)(a), Wis. Stats.] *</p> <p><b>(2)</b> The annual sulfur dioxide emission summary required by condition I.I.1.b.(2) shall be submitted by March 1 for the preceding calendar year to:</p> <p>(a) The Wisconsin Department of Natural Resources, Bureau of Air Management, Combustion Process Section, 101 South Webster Street, P.O. Box 7921, Madison, WI 53707; and</p> <p>(b) The Wisconsin Public Service Commission, 610 North Whitney Way, Madison, WI 53705.</p> <p>[s. 285.41(6), Wis. Stats.] *</p> |

I. Specific Conditions Applicable to WE Energies.

| Condition Type  | a. Limitations | b. Compliance Demonstration  | c. Reference Test Methods, Record-keeping and Monitoring Requirements   |
|---|----------------|--|---|
| <p>1. Sulfur Dioxide -<br/>(Continued) *</p> <p>(Continued on Next Page...)</p> |                | <p>(3) Alternate Scenario - Trading to Comply with Condition I.I.1.a.(1):</p> <p>(a) Two major utilities (as defined in s. 285.41(1)(f), Wis. Stats.) may enter into an agreement for trading emissions unless the sum of the proposed traded emissions and the projected annual emissions of the grantor major utility for the year to which the agreement will apply would exceed the actual annual emissions for the grantor major utility in 1985.</p> <p>(b) To determine whether the major utility that is the grantor in an agreement is in compliance with the emission rate in condition I.I.1.a.(1) in a given year, the Department shall add the traded emissions and the grantor's annual emissions and divide the sum by the annual heat input of the grantor.</p> <p>(c) To determine whether the major utility that is the grantee in an agreement is in compliance with the emission rate in condition I.I.1.a.(1) in a given year, the Department shall subtract the traded emissions from the grantee's annual emissions and divide the difference by the annual heat input of the grantee.</p> <p>[s. 285.41(2)(b), Wis. Stats.] *</p> <p style="text-align: center;">-continued-</p> | <p>(3) Any requests for variance described in condition I.I.1.b.(4) shall be submitted to:</p> <p>(a) The Wisconsin Department of Natural Resources, Bureau of Air Management, Combustion Process Section, 101 South Webster Street, P.O. Box 7921 (AM/7), Madison, WI 53707; and</p> <p>(b) The Wisconsin Public Service Commission, 610 North Whitney Way, Madison, WI 53705.</p> <p>[s. 285.41(4)(a), Wis. Stats.] *</p> |



I. Specific Conditions Applicable to WE Energies.

| Condition Type                               | a. Limitations | b. Compliance Demonstration  | c. Reference Test Methods, Record-keeping and Monitoring Requirements |
|--|----------------|--|---|
| <p>1. Sulfur Dioxide -<br/>(Continued) *</p> |                | <p>(4) Alternate Scenario - Variance: A major utility may request a variance from the emission rate in condition I.I.1.a.(1) according to the following conditions:</p> <ul style="list-style-type: none"> <li>(a) A major utility may request a variance from the emission rate in condition I.I.1.a.(1) if the Department has not served the major utility with written notice under s. 285.83, Wis. Stats. that the major utility has violation condition I.I.1.a.(1); AND</li> <li>(b) if any of the following variance conditions exist:                             <ul style="list-style-type: none"> <li>(i) A major electrical supply emergency within or outside this state.</li> <li>(ii) A major fuel supply disruption.</li> <li>(iii) An extended and unplanned disruption in the operation of a nuclear plant or low sulfur coal-fired boiler under the ownership or control of the major utility.</li> <li>(iv) The occurrence of an uncontrollable event not anticipated in the plan submitted under conditions I.I.1.b.(1) and c.(1).</li> <li>(v) A plan by the major utility to install and place into operation new technological devices that will enable it to achieve compliance with condition I.I.1.a.(1).</li> </ul> </li> <li>(c) With the request for a variance, the major utility shall submit its plan for achieving compliance with condition I.I.1.a.(1).</li> <li>(d) If the request is based on the variance conditions specified under condition I.I.1.b.(4)(b)(i) through (iv), the request shall include an explanation of why the major utility cannot achieve or remain in compliance by using fuel with a lower sulfur content or by environmental dispatching.</li> </ul> <p>[s. 285.41(4)(a) - (b), Wis. Stats.] *</p> |   |

STATE OF WISCONSIN - ACID RAIN PORTION OF THE OPERATION PERMIT

Issued to: WE Energies - South Oak Creek Power Plant  
 ORIS Code: 4041

| Unit ID # <sup>34</sup> | Owned By:                    | Operated By:                 | Existing Unit Commence Operation Date | Existing Unit Monitor Certification Deadline Date |
|-------------------------|------------------------------|------------------------------|---------------------------------------|---|
| 5                       | WE Energies (formerly WEPCO) | WE Energies (formerly WEPCO) | 1960                                  | N/A   |
| 6                       | WE Energies (formerly WEPCO) | WE Energies (formerly WEPCO) | 1961                                  | N/A   |
| 7                       | WE Energies (formerly WEPCO) | WE Energies (formerly WEPCO) | 1965                                  | N/A   |
| 8                       | WE Energies (formerly WEPCO) | WE Energies (formerly WEPCO) | 1967                                  | N/A   |

**Operation Permit Effective Dates:** [insert date at permit issuance] through [insert issuance date + 5 yrs at permit issuance]  
 The acid rain portion of this operation permit took effect on January 1, 2000. [s. NR 409.11(1)(a)3., Wis. Adm. Code]

**Duty to Re-apply:** The designated representative shall submit a complete acid rain portion of an operation permit application at least 12 months, but not more than 18 months, before this permit expires. [s. NR 409.08(1)(c), Wis. Adm. Code]

**Permit Shield:** Operation in accordance with the acid rain portion of this operation permit shall be deemed to be operation in compliance with the acid rain program, except as provided in s. NR 409.06(7)(f), Wis. Adm. Code. [s. NR 409.10(2), Wis. Adm. Code]

**Contents of Acid Rain Portion of the Operation Permit**

1. Statement of Basis
2. Unit Specific Requirements
3. Standard Requirements
4. General Requirements
5. Comments, notes and justifications regarding permit decisions.

<sup>34</sup> Provided by the National Allowance Database for the Federal Acid Rain Program.

**1. Statement of Basis**

Statutory and Regulatory Authorities: This portion of the operation permit is issued pursuant to ss. 285.60 to 285.66, Wis. Stats., Titles IV and V of the federal Clean Air Act (42 USC 7651 to 7661f), and chs. NR 407 and 409, Wis. Adm. Code.

**2. Specific Requirements for Units 5, 6, 7, and 8**

| POLLUTANT                | LIMITATION   | COMPLIANCE PLAN  |
|--------------------------|--|--|
| <p>a. Sulfur Dioxide</p> | <p>(1) Sulfur dioxide emissions from EACH unit may not exceed the number of allowances that the source lawfully holds under the acid rain program, including allowances allocated directly to the source through the acid rain program and allowances obtained through the emissions trading provisions of the acid rain program, subject to the following qualifications: [s. NR 407.09(2)(a), Wis. Adm. Code]</p> <ul style="list-style-type: none"> <li>(a) No permit revision may be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that the increases do not require a permit revision under any other applicable requirement;</li> <li>(b) No limit may be placed on the number of allowances that may be held by the stationary source;</li> <li>(c) A stationary source may not use allowances as a defense to noncompliance with any applicable requirements other than the requirements of the acid rain program; and</li> <li>(d) Any acid rain allowance shall be accounted for according to the procedures established in the acid rain program.</li> </ul> <p>(2) The permittee shall operate EACH unit in compliance with the standard sulfur dioxide requirements of condition 3.c. of the acid rain portion of this permit. [s. NR 409.06(3)(a)2, Wis. Adm. Code]</p> | <p>(3) The permittee shall, as of the allowance transfer deadline,<sup>35</sup> for these phase II units, hold allowances in EACH units compliance sub account [after deductions under 40 CFR 73.34(c)] not less than the total annual emissions of sulfur dioxide from the unit. The permittee is not applying for any compliance options under 40 CFR 72.40(b) or s. NR 409.09(1)(b), Wis. Adm. Code. [s. NR 409.06(3)(a)1., Wis. Adm. Code.</p> |

<sup>2</sup> The allowance transfer deadline is midnight of March 1 (or February 29 in a leap year) or, if March 1 (or February 29 in a leap year) is not a business day, midnight of the first business day thereafter. [s. NR 409.02(12), Wis. Adm. Code]

2. Specific Requirements for Units 5, 6, 7, and 8 (Continued)

| POLLUTANT                 | LIMITATION  | COMPLIANCE PLAN  |
|---------------------------|---|--|
| <p>b. Nitrogen Oxides</p> | <p>(1) Pursuant to s. NR 409.065(7), the Department approves a NOx emissions averaging plan for Unit 5, Unit 6, Unit 7 and Unit 8, effective from calendar years 2003 through 2008. Under the plan, neither Unit 5's nor Unit 6's NOx emissions may exceed the annual average alternative contemporaneous emission limitation of 0.24 lb/mmBtu. In addition, Unit 5 may not have an annual heat input less than 9,507,158 mmBtu and Unit 6 may not have an annual heat input less than 9,677,216 mmBtu. Also under the plan, neither Unit 7's nor Unit 8's NOx emissions may exceed the annual average alternative contemporaneous emission limitation of 0.28 lb/mmBtu. In addition, Unit 7 may not have an annual heat input less than 10,644,661 mmBtu and Unit 8 may not have an annual heat input less than 10,811,329 mmBtu.</p> <p>[s. NR 409.065(7)(a), Wis. Adm. Code]</p> <p>(2) Under the plan, the actual Btu-weighted annual average NOx emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NOx emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under s. NR 409.065(2), (3) or (4), except that for any early election units, the applicable emission limitations shall be under 409.065(4). If the designated representative demonstrates that the requirement of the prior sentence (as set forth in s. NR 409.065(7)(d)2.a.) is met for a year under the plan, then this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit.</p> <p>[s. NR 409.065(7)(d)2., Wis. Adm. Code]</p> <p>(3) In accordance with 40 CFR 72.40(b)(2), approval of the averaging plan shall be final only when the State of Michigan Department of Environmental Quality has also approved this averaging plan.</p> <p>[s. NR 409.02(29), Wis. Adm. Code, s. 285.65(12), Stats.]</p> <p>(4) In addition to the described NOx compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to re-apply for an operation permit and a NOx compliance plan approval, as well as requirements covering excess emissions.</p> <p>[s. NR 409.12(6)(a)2., Wis. Adm. Code, s. 285.65(12), Stats.]</p> | <p>(5) For nitrogen oxides these units will meet the applicable emission limitations established by s. NR 409.065, Wis. Adm. Code, the applicable monitoring provisions of 40 CFR 75.10, 75.12 and 75.17, and the applicable reporting requirements of 40 CFR Part 75, Subpart G. [s. NR 409.065, Wis. Adm. Code, s. 285.65(12), Stats.]</p> |

3. Standard Requirements for all Affected Units

| CONDITION                         | REQUIREMENTS   |
|-----------------------------------|--|
| <p>a. Permit Requirements</p>     | <p>(1) The designated representative of each affected source and each affected unit at the source shall:</p> <ul style="list-style-type: none"> <li>(a) Except for a phase I acid rain permit to be issued by U.S. EPA, submit a complete acid rain portion of an operation permit application (including a compliance plan) under 40 CFR part 72 and ch. NR 409, Wis. Adm. Code in accordance with the deadlines specified in s. NR 409.08(1), Wis. Adm. Code and 40 CFR 72.30; and</li> <li>(b) Submit in a timely manner any supplemental information that the Department determines is necessary in order to review an acid rain portion of an operation permit application and issue or deny an acid rain portion of an operation permit application.</li> </ul> <p>[s. NR 409.06(1)(a), Wis. Adm. Code]</p> <p>(2) The owners and operators of each affected source and each affected unit at the source shall:</p> <ul style="list-style-type: none"> <li>(a) Operate the unit in compliance with a complete acid rain portion of an operation permit application or a superseding acid rain portion of an operation permit issued by the Department; and</li> <li>(b) Have an acid rain portion of an operation permit.</li> </ul> <p>[s. NR 409.06(1)(b), Wis. Adm. Code]</p> |
| <p>b. Monitoring Requirements</p> | <p>(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR parts 74, 75, and 76 and s. NR 409.065.</p> <p>[s. NR 409.06(2)(a), Wis. Adm. Code]</p> <p>(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 and s. NR 409.065 shall be used to determine compliance by the unit with the acid rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the acid rain program.</p> <p>[s. NR 409.06(2)(b), Wis. Adm. Code]</p> <p>(3) The requirements of 40 CFR parts 74 and 75 and s. NR 409.065 do not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the act and other provisions of the operation permit for the source.</p> <p>[s. NR 409.06(2)(c), Wis. Adm. Code]</p>   |

3. Standard Requirements for all Affected Units (Continued)

|                                       |  |
|---------------------------------------|--|
| <p>c. Sulfur Dioxide Requirements</p> | <p>(1) The owners and operators of each source and each affected unit at the source shall:</p> <ul style="list-style-type: none"> <li>(a) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount, after deductions under 40 CFR 73.34(c), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and</li> <li>(b) Comply with the applicable acid rain emissions limitations for sulfur dioxide.</li> </ul> <p>[s. NR 409.06(3)(a), Wis. Adm. Code]</p> <p>(2) Each ton of sulfur dioxide emitted in excess of the acid rain emissions limitations for sulfur dioxide shall constitute a separate violation.</p> <p>[s. NR 409.06(3)(b), Wis. Adm. Code]</p> <p>(3) An affected unit shall be subject to the requirements under condition 3.c.(1) of the acid rain portion of this permit as follows:</p> <ul style="list-style-type: none"> <li>(a) Starting January 1, 2000, for an affected unit under s. NR 409.01(1)(a)2., Wis. Adm. Code; or</li> <li>(b) Starting on the later of January 1, 2000 or the monitor certification deadline under 40 CFR part 75, for an affected unit under s. NR 409.01(1)(a)3, Wis. Adm. Code.</li> </ul> <p>[s. NR 409.06(3)(c), Wis. Adm. Code]</p> <p>(4) Allowances shall be held in, deducted from, or transferred among allowance tracking system accounts in accordance with the acid rain program.</p> <p>[s. NR 409.06(3)(d), Wis. Adm. Code]</p> <p>(5) An allowance may not be deducted in order to comply with the requirements under condition 3..c.(1)(a) of this permit prior to the calendar year for which the allowance was allocated.</p> <p>[s. NR 409.06(3)(e), Wis. Adm. Code]</p> <p>(6) An allowance allocated by the U.S. EPA under the acid rain program is a limited authorization to emit sulfur dioxide in accordance with the acid rain program. No provision of the acid rain program, the acid rain portion of an operation permit application, the acid rain portion of an operation permit or an exemption under ss. NR 409.04, 409.05 or 409.055, Wis. Adm. Code and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.</p> <p>[s. NR 409.06(3)(f), Wis. Adm. Code]</p> <p>(7) An allowance allocated by the U.S. EPA under the acid rain program does not constitute a property right. [s. NR 409.06(3)(g), Wis. Adm. Code]</p> |
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3. Standard Requirements for all Affected Units (Continued)

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|--|---|
| <p>d. Nitrogen Oxides Requirements</p> | <p>(1) <b>General Provisions.</b> The owners and operators of the source and each affected unit at the source shall comply with the applicable acid rain emissions limitation for nitrogen oxides. [s. NR 409.06(4), Wis. Adm. Code]</p> <p>(2) <b>Special Provisions for Averaging Plans.</b></p> <p>(a) <u>Emission Limitations</u></p> <p>Each affected unit in an approved averaging plan is in compliance with the acid rain emission limitation for NOx under the plan only if the following requirements are met:</p> <p>i. For each unit, the unit's actual annual average emission rate for the calendar year, in lb/MMBTU, is less than or equal to its alternative contemporaneous emission limitation (ACEL) in the averaging plan, and</p> <p>(i) for each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6 or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan.</p> <p>(ii) for each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6 or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan. or</p> <p>ii. If one or more of the units does not meet the requirements of a., the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual BTU-weighted annual average emission rate for the units in the plan is less than or equal to the BTU-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6 or 76.7.</p> <p>iii. If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under a.</p> <p>(b) <u>Liability</u></p> <p>The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in 40 CFR part 77 and sections 113 and 411 of the act.</p> <p>(c) <u>Termination</u></p> <p>The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.</p> <p>[s. NR 409.065(7)(d), Wis. Adm. Code]</p> |
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3. Standard Requirements for all Affected Units (Continued)

| CONDITION  | REQUIREMENTS  |
|--|---|
| <p>e. Excess Emissions Requirements</p>            | <p>(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan to the U.S. EPA, as required under 40 CFR part 77, and submit a copy to the Department.<br/>[s. NR 409.06(5)(a), Wis. Adm. Code]</p> <p>(2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:</p> <ul style="list-style-type: none"> <li>(a) Pay to the U.S. EPA without demand the penalty required, and pay to the U.S. EPA upon demand the interest on that penalty, as required by 40 CFR part 77; and</li> <li>(b) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.</li> </ul> <p>[s. NR 409.06(5)(c), Wis. Adm. Code]</p>  |
| <p>f. Recordkeeping and Reporting Requirements</p> | <p>(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the U.S. EPA or the Department:</p> <ul style="list-style-type: none"> <li>(a) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;</li> <li>(b) All emissions monitoring information, in accordance with 40 CFR part 75; provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply;</li> <li>(c) Copies of all reports, compliance certifications, and other submissions and all records made or required under the acid rain program; and,</li> <li>(d) Copies of all documents used to complete an acid rain portion of an operation permit application and any other submission under the acid rain program or to demonstrate compliance with the requirements of ch. NR 409, Wis. Adm. Code and the acid rain program.</li> </ul> <p>[s. NR 409.06(6)(a), Wis. Adm. Code]</p> <p>(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the acid rain program, including those under s. NR 409.13, Wis. Adm. Code and 40 CFR part 75.<br/>[s. NR 409.06(6)(b), Wis. Adm. Code]</p> |



3. Standard Requirements for all Affected Units (Continued)

| CONDITION           | REQUIREMENTS   |
|---------------------|--|
| <p>g. Liability</p> | <p>(1) Any person who knowingly violates any requirement or prohibition of the acid rain program, a complete acid rain portion of an operation permit application, an acid rain portion of an operation permit, or an exemption under ss. NR 409.04, NR 409.05 or 409.055, Wis. Adm. Code shall be subject to enforcement by the Department pursuant to ch. NR 494, Wis. Adm. Code and ss. 285.83 and 285.87, Wis. Stats. Any person who knowingly violates any requirement or prohibition of the acid rain program, a complete acid rain portion of an operation permit application, an acid rain portion of an operation permit, or an exemption under 40 CFR 72.7, 72.8 or 72.14, including any requirement for the payment of any penalty owed to the United states shall be subject to enforcement by the U.S. EPA pursuant to s. 113(c) of the Clean Air Act. [s. NR 409.06(7)(a), Wis. Adm. Code]</p> <p>(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement by the Department pursuant to ch. NR 494, Wis. Adm. Code and ss. 285.83 and 285.87, Wis. Stats. Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement by the U.S. EPA pursuant to s. 113(c) of the Clean Air Act and 18 U.S.C. 1001. [s. NR 409.06(7)(b), Wis. Adm. Code]</p> <p>(3) No permit revision may excuse any violation of the requirements of ch. NR 409, Wis. Adm. Code, and the acid rain program that occurs prior to the date that the revision takes effect. [s. NR 409.06(7)(c), Wis. Adm. Code]</p> <p>(4) Each affected source and each affected unit shall meet the requirements of ch. NR 409, Wis. Adm. Code, and the acid rain program. [s. NR 409.06(7)(d), Wis. Adm. Code]</p> <p>(5) Any provision of the acid rain program that applies to an affected source, including a provision applicable to the designated representative of an affected source, shall also apply to the owners and operators of such source and of the affected units at the source. [s. NR 409.06(7)(e), Wis. Adm. Code]</p> <p>(6) Any provision of the acid rain program that applies to an affected unit, including a provision applicable to the designated representative of an affected unit, shall also apply to the owners and operators of the unit. Except as provided under s. NR 409.09(2), Wis. Adm. Code, 40 CFR 72.41, 72.42, 72.43, 72.44 (Phase II repowering extension plans), 74.47 and 76.11 (NOx averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75, including 40 CFR 75.16, 75.17, and 75.18, the owners and operators and the designated representative of one affected unit are not liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative. [s. NR 409.06(7)(f), Wis. Adm. Code]</p> <p>(7) Each violation of a provision of ch. NR 409, Wis. Adm. Code and 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation. [s. NR 409.06(7)(g), Wis. Adm. Code]</p> |

3. Standard Requirements for all Affected Units (Continued)

| CONDITION                             | REQUIREMENTS   |
|---------------------------------------|--|
| <p>h. Effect on Other Authorities</p> | <p>(1) No provision of the acid rain program, an acid rain portion of an operation permit application, an acid rain portion of an operation permit, or an exemption under s. NR 409.04, NR 409.05 or 409.055, Wis. Adm. Code, or 40 CFR part 72.7 or 72.8 may be construed as doing any of the following:</p> <ul style="list-style-type: none"> <li>(a) Except as expressly provided in title IV of the act (42 USC 7651 to 7651o), exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the act, including the provisions of title I of the act relating to applicable national ambient air quality standards or state implementation plans;</li> <li>(b) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the act;</li> <li>(c) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding the state regulation, or limiting the state regulation, including any prudence review requirements under state law;</li> <li>(d) Modifying the federal power act (16 USC 791a et seq.) or affecting the authority of the federal energy regulatory commission under the federal power act; or,</li> <li>(e) Interfering with or impairing any program for competitive bidding for power supply in a state in which the program is established.</li> </ul> <p>[s. NR 409.06(8), Wis. Adm. Code]</p> |

4. General Requirements for all Affected Units

| CONDITION      | REQUIREMENTS   |
|----------------|--|
| a. Reporting   | <p>(1) <u>Annual Compliance Certification Report</u>: For each calendar year in which a unit is subject to the acid rain emissions limitations, the designated representative shall submit to the U.S. EPA and to the Department within 60 days after the end of the calendar year, an annual compliance certification report for the unit in compliance with 40 CFR 72.90. For the purpose of determining compliance with the acid rain emissions limitations and reduction requirements, total tons for a year shall be calculated as the sum of all recorded hourly emissions rates, or the tonnage equivalent of the recorded hourly emissions rates, in accordance with 40 CFR part 75, with any remaining fraction of a ton equal to or greater than 0.50 ton deemed to equal one ton and any fraction of a ton less than 0.50 ton deemed not to equal any ton.<sup>36</sup></p> <p>[s. NR 409.13(1), Wis. Adm. Code]</p>  |
| b. Submissions | <p>(1) The designated representative shall submit a certificate of representation, and any superseding certificate of representation, to the U.S. EPA in accordance with subpart B of 40 CFR part 72 and, concurrently, shall submit a copy to the Department. The designated representative may disregard this requirement if the aforementioned certificate has already been submitted to the U.S. EPA and the Department.</p> <p>[s. NR 409.07(1)(a), Wis. Adm. Code]</p> <p>(2) Each submission under the acid rain program shall be submitted, signed and certified by the designated representative for all sources on behalf of which the submission is made.</p> <p>[s. NR 409.07(1)(b), Wis. Adm. Code]</p> <p>(3) In each submission under the acid rain program, the designated representative shall certify, by his or her signature:</p> <p>(a) The following statement, which shall be included verbatim in the submission: I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made.</p> <p>(b) The following statement which shall be included verbatim in the submission: I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best proof my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.</p> <p>[s. NR 409.07(1)(c), Wis. Adm. Code]</p> |

<sup>36</sup> Please note that your facility will have two (2) compliance certification reporting requirements: one for the operation permit portion, and one for the acid rain portion of this permit. Submitting a complete annual compliance certification in accordance with this condition will satisfy the compliance certification requirement for the acid rain portion of this permit. See the Total Facility portion of the operation permit portion for the other compliance certification reporting requirement.

4. General Requirements for all Affected Units (Continued)

| CONDITION                             | REQUIREMENTS  |
|---------------------------------------|---|
| <p>b. Submissions<br/>- continued</p> | <p>(4) The designated representative of a source shall serve notice on each owner and operator of the source and of an affected unit at the source:</p> <ul style="list-style-type: none"> <li>(a) By the date of submission, of any acid rain program submissions by the designated representative;</li> <li>(b) Within 10 business days of receipt of a determination, of any written determination by the U.S. EPA or the Department; and</li> <li>(c) Provided that the submission or determination covers the source or the unit.</li> </ul> <p>[s. NR 409.07(1)(e), Wis. Adm. Code]</p> <p>(5) The designated representative of a source shall provide each owner and operator of an affected unit at the source a copy of any submission or determination under condition 4.b.(4) of the acid rain portion of this permit, unless the owner or operator expressly waives the right to receive a copy.</p> <p>[s. NR 409.07(1)(f), Wis. Adm. Code]</p>  |
| <p>c. Appeal<br/>Procedures</p>       | <p>(1) Appeals of the acid rain portion of this operation permit issued by the Department that do not challenge or involve decisions or actions of the U.S. EPA under 40 CFR parts 72, 73, 74, 75, 76, 77 and 78 shall be conducted according to the procedures in ch. NR 407 and ss. 285.13(1), 285.81 and 227.40 to 227.60, Wis. Stats. The permit shield under s. NR 409.10(2) shall continue to be in effect during the appeal process. Appeals of the acid rain portion of a permit that challenge or involve decisions or actions of the U.S. EPA shall follow the procedures under 40 CFR part 78 and section 307 of the act (42 USC 7607). Decisions or actions include, but are not limited to, allowance allocations, determinations concerning alternative monitoring systems and determinations of whether a technology is a qualifying repowering technology.</p> <p>[s. NR 409.11(2)(a), Wis. Adm. Code]</p> <p>(2) No state or administrative or judicial appeal of the acid rain portion of an operation permit may be allowed to commence more than 30 days following the issuance of the acid rain portion of an operation permit, as provided by ss. 285.81 and 227.53, Wis. Stats.</p> <p>[s. NR 409.11(2)(b), Wis. Adm. Code]</p> <p>(3) The U.S. EPA may intervene as a matter of right in any state administrative appeal of an acid rain portion of an operation permit or denial of an acid rain portion of an operation permit.</p> <p>[s. NR 409.11(2)(c), Wis. Adm. Code]</p> |

5. Comments, Notes and Justifications: None

**PART II**  
**General Permit Conditions**  
**For Direct Stationary Sources**

**A. Scope.**

This permit is valid only for the structure, building, facility, equipment or operation specifically identified herein. All emissions authorized hereby shall be in compliance with the terms and conditions of Parts I and II of this permit. [s. 285.60(7), Wis. Stats.]

**B. Emissions Prohibited.**

Unless the Department has approved an exception under s. NR 436.03(2), no person may cause, allow, or permit emissions of any air contaminant into the ambient air in excess of the limits set in chs. NR 400 to 499, Wis. Adm. Code. [s. NR 436.03(1), Wis. Adm. Code]

**C. General Emission Limits.**

**C.1. Applicable to Insignificant Emissions Units.**

The following general emission limitations may apply to one or more of the insignificant emission units identified in the preamble of this permit. It is the permittee's responsibility to comply with these requirements, if they do apply. Insignificant emission units typically are associated with inconsequential environmental impacts and present little potential for violations of these generally applicable requirements. If there were no observed, documented or known instances of noncompliance, certification of compliance is appropriate. Testing or monitoring to assure compliance is not required by this permit.

C.1.a. Section NR 415.05, Wis. Adm. Code – Particulate emission limits for processes;

C.1.b. Section NR 415.06, Wis. Adm. Code – Particulate emission limits for fuel burning installations;

C.1.c. Section NR 415.07, Wis. Adm. Code – Particulate emission limits for incinerators;

C.1.d. Section NR 423.03, Wis. Adm. Code – Solvent metal cleaning;

C.1.e. Section NR 485.05, Wis. Adm. Code – Visible emission limits for motor vehicles, internal combustion engines and mobile sources; and

C.1.f. Section NR 485.055, Wis. Adm. Code – Particulate emission limit for gasoline and diesel internal combustion engines.

**C.2. Applicable to Significant and Insignificant Emissions Units.**

The following general emission limitations may apply to both significant and insignificant emission units. It is the permittee's responsibility to comply with these requirements, if they apply. Testing or monitoring to assure compliance with these general emission limits is not required by this permit.

For each significant emission unit, if a more specific emission limit is included in Part I of this permit for any of the pollutants listed below, then compliance with that more specific limit will constitute compliance with the general emission limit. If a more specific limit is not included in Part I of this permit, then that pollutant was determined to be insignificant for that emission unit.

For insignificant emission units, if there were no observed, documented or known instances of non-compliance, certification of compliance is appropriate.

- C.2.a. No person may cause, allow, or permit particulate matter to be emitted into the ambient air which substantially contributes to exceeding of an air standard, or creates air pollution. [s. NR 415.03, Wis. Adm. Code]
- C.2.b. No person may cause, allow, or permit any materials to be handled, transported, or stored without taking precautions to prevent particulate matter from becoming airborne. Nor may a person allow a structure, a parking lot, or a road to be used, constructed, altered, repaired, sand blasted or demolished without taking such precautions. Such precautions shall include, but not be limited to the following [s. NR 415.04, Wis. Adm. Code]:
  - C.2.b.(1) Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, or construction operations.
  - C.2.b.(2) Application of asphalt, oil, water, suitable chemicals, or plastic covering on dirt roads, material stockpiles, and other surfaces which can create airborne dust, provided such application does not create a hydrocarbon, odor, or water pollution problem.
  - C.2.b.(3) Installation and use of hoods, fans and air cleaning devices to enclose and vent the areas where dusty materials are handled.
  - C.2.b.(4) Covering or securing of materials likely to become airborne while being moved on public roads, railroads, or navigable waters.
  - C.2.b.(5) Conduct of agricultural practices such as tilling of land or application of fertilizers in such manner as not to create air pollution.
  - C.2.b.(6) The paving or maintenance of roadway areas so as not to create air pollution.
- C.2.c. No person may cause, allow or permit emission of sulfur or sulfur compounds into the ambient air which substantially contribute to the exceeding of an air standard or cause air pollution. [s. NR 417.03, Wis. Adm. Code]
- C.2.d. No person may cause, allow or permit organic compound emissions into the ambient air which substantially contribute to the exceeding of an air standard or cause air pollution. No person may cause, allow or permit organic compounds to be used or handled without using good operating practices and taking reasonable precautions to prevent the spillage, escape or emission of organic compounds, solvents or mixtures. [s. NR 419.03, Wis. Adm. Code]
- C.2.e. No person may cause, allow or permit the disposal of more than 5.7 liters (1.5 gallons) of any liquid Volatile Organic Compound (VOC) waste, or of any liquid, semisolid or solid waste

materials containing more than 5.7 liters (1.5 gallons) of any VOC, in any one day from a facility in a manner that would permit their evaporation into the ambient air during the ozone season. This includes, but is not limited to, the disposal of VOC which must be removed from VOC control devices so as to maintain the control devices at their required operating efficiency. Disposal during the ozone season shall be by methods approved by the Department, such as incineration, recovery for reuse, or transfer in closed containers to an acceptable disposal facility, such that the quantity of VOC which evaporates into the ambient air does not exceed 15% (by weight) or 5.7 liters (1.5 gallons) in any one day, whichever is larger. [s. NR 419.04, Wis. Adm. Code]

- C.2.f. No person may cause, allow or permit emissions of carbon monoxide to the ambient air which substantially contribute to the exceeding of an air standard or cause air pollution. [s. NR 426.03, Wis. Adm. Code].
- C.2.g. No person may cause, allow or permit emissions into the ambient air of lead or lead compounds which substantially contribute to the exceeding of an air standard or air increment, or which create air pollution. [s. NR 427.025, Wis. Adm. Code]
- C.2.h. No person may cause, allow, or permit nitrogen oxides or nitrogen compounds to be emitted to the ambient air which substantially contribute to the exceeding of an air standard or cause air pollution. [s. NR 428.03, Wis. Adm. Code]
- C.2.i. No person may cause, allow or permit emission into the ambient air of any substance or combination of substances in such quantities that an objectionable odor is determined to result unless preventive measures satisfactory to the Department are taken to abate or control such emission. [s. NR 429.03(1), Wis. Adm. Code\*]
- C.2.j. Open burning is prohibited except as provided in s. NR 429.04, Wis. Adm. Code. [s. NR 429.04, Wis. Adm. Code\*]
- C.2.k. No person may cause, allow or permit emissions into the ambient air from any direct or portable source in excess of one of the limits specified in ch. NR 431, Wis. Adm. Code. Where the presence of uncombined water is the only reason for failure to meet the requirements of ch. NR 431, Wis. Adm. Code, such failure is not a violation of the chapter. [s. NR 431.03, Wis. Adm. Code]
- C.2.l. When the Department requires instrumentation to monitor the operation of air pollution control equipment, or to monitor source performance, the instrument shall measure operational variables with the following accuracy: [ss. NR 439.055(3) and NR 407.09(1)(c)1.c., Wis. Adm. Code]
  - C.2.l.(1) The temperature monitoring device shall have an accuracy of 0.5% of the temperature being measured in degrees Fahrenheit or  $\pm 5^{\circ}\text{F}$  of the temperature being measured, or the equivalent in degrees Celsius (centigrade), whichever is greater.
  - C.2.l.(2) The pressure drop monitoring device shall be accurate to within 5% of the pressure drop being measured or within  $\pm 1$  inch of water column, whichever is greater.
  - C.2.l.(3) The current, voltage, flow or pH monitoring device shall be accurate to within 5% of the

specific variable being measured.

- C.2.m. All instruments used for measuring source or air pollution control equipment operational variables shall be calibrated yearly or at a frequency based on good engineering practice as established by operational history, whichever is more frequent. [ss. NR 439.055(4) and NR 407.09(1)(c)1.c., Wis. Adm. Code]
- C.2.n. No person may cause, allow, or permit emissions into the ambient air of any hazardous substance in such quantity, concentration, or duration as to be injurious to human health, plant or animal life unless the purpose of that emission is for the control of plant or animal life. Hazardous substances include, but are not limited to, hazardous air contaminants listed in Tables 1 to 5 of s. NR 445.04, Wis. Adm. Code. [s. NR 445.03, Wis. Adm. Code\*]
- C.2.o. Chapter NR 447, Wis. Adm. Code, applies to all air contaminant sources which may emit asbestos, to their owners and operators and to any person whose action causes the emission of asbestos to the ambient air, including demolition and renovation activities. Chapter NR 447, Wis. Adm. Code, establishes emission limitations for asbestos air contaminant sources, establishes procedures to be followed when working with asbestos materials and contains additional reporting and record keeping requirements for owners or operators of asbestos air contaminant sources in order to protect air quality. [ch. NR 447, Wis. Adm. Code]
- C.2.p. Accidental Release Prevention Requirements.

An owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, shall comply with the requirements of 40 CFR Part 68, no later than the latest of the following dates:

- C.2.p.(1) June 21, 1999;
- C.2.p.(2) Three years after the date on which a regulated substance is first listed under 40 CFR 68.130;  
or
- C.2.p.(3) The date on which a regulated substance is first present above a threshold quantity in a process.

[40 CFR Part 68.10]

#### **D. Reporting Requirements.**

D.1. The Department shall be notified of the following events:

| <u>Event</u>  | <u>Timing</u>   |
|---|---|
| D.1.a. Hazardous substance air spill.   | Immediate call: 1-800-943-0003  |
| D.1.b. Malfunction or other unscheduled event which causes or may cause any emission limitation to be exceeded (except certain visible emission limit exceedences | Notification by next business day of any such event at the source which is not reported in advance to the Department. Report the cause and duration of the exceedence, the period of time |



detected by a continuous emission monitor considered necessary for correction, and measures  
- see s. NR 439.03(4)(a)2., Wis. Adm. taken to minimize emissions during the period.  
Code.).

D.1.c. Deviation from any other condition Notification by next business day identifying the  
specified in this permit. deviation, cause, duration and steps taken to pre-  
vent recurrence.

[ss. 285.65(10) and 292.11(2), Wis. Stats., and s. NR 439.03(4)\*, Wis. Adm. Code]

D.2. Persons possessing or controlling a hazardous substance shall immediately notify the Department  
of any hazardous emission not in conformity with a permit or allowed by the Department under  
chs. NR 400 to 499. Notice shall be given as required by s. 292.11, Stats., and ch. NR 706.

Event

Timing

D.2.a. Hazardous substance air spill

Immediate call: 1-800-943-0003

[s. 292.11(2), Wis. Stats., and s. NR 445.08, Wis. Adm. Code\*]

D.3. The permittee shall report to the Department, in advance, schedules for planned shutdown and  
startup of air pollution control equipment and the measures to be taken to minimize the down  
time of the control equipment while the source is operating. Scheduled maintenance or any other  
scheduled event, including startup, shutdown or soot blowing procedures which have been  
approved by the Department under s. NR 436.03(2)(b), which causes an emission limit to be  
exceeded shall also be reported in advance to the Department. Advance reporting pursuant to this  
permit condition does not relieve any person from the duty to comply with any applicable  
emission limitations. Emissions in excess of the limits set in chs. NR 400-499, Wis. Adm. Code,  
may be allowed when the emissions are temporary and due to scheduled maintenance, startup or  
shutdown of operations carried out in accord with a plan and schedule approved by the  
Department. [s. NR 436.03(2)(b) and NR 439.03(6), Wis. Adm. Code]

D.4. The permittee shall furnish to the Department, within a reasonable time specified by the  
Department, any information that the Department may request in writing to determine whether  
cause exists to revise, revoke or suspend this permit or to determine compliance with this permit.  
Upon request, the permittee shall also furnish to the Department copies of records required to be  
kept pursuant to this permit. [s. NR 407.09(1)(f)5., Wis. Adm. Code]

D.5. The permittee shall submit the results of monitoring required by the permit to the Department  
according to the schedule established in Part I of this permit. Any such report shall clearly  
identify all instances of deviations from permit requirements. All such reports shall be signed by  
the responsible official for the source. [s. 285.17(2), Wis. Stats., and s. NR 439.03(1)(b), Wis.  
Adm. Code]

D.6. Each report required under s. NR 439.03, Wis. Adm. Code, shall be certified by a responsible  
official as to its truth, accuracy and completeness. This certification and any other certification  
required under ch. NR 439 shall state that, based on information and belief formed after  
reasonable inquiry, the statements and information in the document are true, accurate and

complete. [s. NR 439.03(10), Wis. Adm. Code\*]

- D.7. Except for information determined to be confidential under s. 285.70(2), Wis. Stats., any information or reports obtained by the Department in the administration of ss. 285.01 to 285.87 and 299.15, Wis. Stats., will be available for public inspection at the offices of the Department. [s. 285.70(1), Wis. Stats.]
- D.8. All certifications made under s. NR 439.03, Wis. Adm. Code, and all material statements and representations made in any report or notice required by this operation permit shall be truthful. [s. NR 439.03(11), Wis. Adm. Code\*]
- D.9. Any document required under this permit and submitted to the Department, including reports, shall contain a certification by a responsible official that meets the requirements of s. NR 407.05(4)(j), Wis. Adm. Code. [s. NR 407.09(4)(a)1., Wis. Adm. Code]

**E. Right of Entry and Inspection.**

The permittee shall allow authorized representatives of the Department to enter upon the permittee's premises, to have access to and examine any record relating to emissions or required to be kept, and to make any inspection necessary to ascertain compliance with air pollution control laws and the terms of this permit. The Department may, for the purpose of determining a source's compliance with applicable requirements, sample or monitor at reasonable times production materials or other substances or operational parameters. [ss. 285.13 and 285.19, Wis. Stats., and s. NR 439.05, Wis. Adm. Code]

**F. Malfunction Prevention and Abatement Plans.**

The owner or operator of any direct or portable source which may emit hazardous substances or emits more than 15 pounds in any day or 3 pounds in any hour of any air contaminant for which emission limits have been adopted shall prepare a written malfunction prevention and abatement plan to prevent, detect, and correct malfunctions or equipment failures which may cause any applicable emission limitation to be violated or which may cause air pollution. Any such plan shall be carried out by the owner or operator. The plan shall be updated at least every 5 years. The Department may require the plan to be submitted for review and approval. [s. NR 439.11, Wis. Adm. Code\*]

**G. Emission Control Action Plan.**

For source(s) covered by this permit which emit 0.25 tons or more per day of any air contaminant for which air standards have been adopted, the permittee shall prepare an emission control action program, consistent with good industrial practice and safe operating procedures, for reducing the emission of air contaminants into the outdoor atmosphere during periods of an air pollution alert, air pollution warning or air pollution emergency declared under s. NR 493.03(2), Wis. Adm. Code. The emission control action program shall be in writing, available on the premises and is subject to review and approval by the Department on request. [s. NR 493.04, Wis. Adm. Code\*]

**H. Change in Ownership or Control.**

In the event of a change in ownership or operational control of a source, the permittee shall file a

written request for an administrative permit revision in accordance with s. NR 407.11, Wis. Adm. Code. The request should include a written agreement between the current and new owner or operator which sets forth a specific date for transfer of permit responsibility, coverage and liability. If the Department determines that no other change in this permit is necessary, this permit may be revised according to the administrative revision procedures in s. NR 407.11, Wis. Adm. Code. [s. NR 407.11(3)(a), Wis. Adm. Code]

**I. Permit Flexibility, Revision, Suspension, and Revocation.**

- I.1. Changes to the source which are not modifications and changes in permit content are regulated under the permit flexibility provisions of s. 285.60(4m), Wis. Stats., and s. NR 407.025, Wis. Adm. Code, and the permit revision provisions in ss. NR 407.11, NR 407.12, NR 407.13, NR 407.14, and NR 407.16, Wis. Adm. Code.
- I.2. An operation permit may be suspended or revoked, in whole or in part, for cause. [ss. NR 407.09(1)(f)3. and NR 407.15, Wis. Adm. Code.]

**J. Construction, Reconstruction, Replacement, Relocation or Modification.**

- J.1. Unless the replacement is authorized by a permit or is exempt under s. NR 406.04, Wis. Adm. Code, replacement of the source(s) covered by this permit is prohibited. [s. 285.60(1)(a), Wis. Stats.]
- J.2. No person may commence construction, reconstruction, replacement, relocation or modification of a stationary source unless the person has a construction permit for the source or unless the source is exempt from the requirement to obtain a permit under s. 285.60(5), Wis. Stats., or under ch. NR 406, Wis. Adm. Code. Applications for the construction permit shall be submitted on forms which are available from the Department at its Madison headquarters and district offices. [s. 285.60(1)(a), Wis. Stats.]

Note: The address of the Madison headquarters is: Wisconsin Department of Natural Resources, Bureau of Air Management, PO Box 7921, Madison, WI 53707. Attention: Permit Application Forms.

- J.3. For new or modified sources for which no construction permit is required, the application for an operation permit shall be filed before the source commences construction or modification. [s. NR 407.04, Wis. Adm. Code]

**K. Circumvention.**

- K.1. The installation or use of any article, machine, equipment, process, or method which conceals an emission which would otherwise constitute a violation of an applicable rule is prohibited unless written approval has been obtained from the Department. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance and the unnecessary separation of an operation into parts to avoid coverage by a rule that applies only to operations larger than a specified size. [s. NR 439.10, Wis. Adm. Code]
- K.2. No one may render inaccurate any monitoring device or method required under ch. NR 439, Wis.

Adm. Code, or in this permit. [s. NR 439.03(12), Wis. Adm. Code\*]

- K.3. No person may knowingly falsify, tamper with, render inaccurate or fail to install any monitoring device or method required to be maintained or followed under the Clean Air Act. [Clean Air Act s. 113(c)(2)(C); 42 USC 7413(c)(2)(C), s. 285.65(13), Wis. Stats.]

**L. Civil/Criminal Liability.**

- L.1. Nothing in this permit shall be construed to relieve the permit holder from civil and/or criminal penalties under ss. 285.87 and 299.15, Wis. Stats., for violation of the terms or conditions of this permit, or for violation of ss. 285.01 to 285.87, 292.11(2) and 299.15, Wis. Stats., or of any rule or any special order issued under those sections except where the operation permit shield provisions of s. 285.62(10)(b), Wis. Stats., are applicable. [s. 285.62(10)(b), Wis. Stats.]
- L.2. The permittee has the duty to comply with all conditions of the permit. Any noncompliance with this permit constitutes a violation of the Wisconsin statutes, the federal clean air act, or both, and is grounds for enforcement action; for permit suspension, revocation or revision; or, if allowed under s. 285.62(6), Wis. Stats., for denial of a permit renewal application. [ss. NR 407.14, NR 407.15, and NR 407.09(1)(f)1., Wis. Adm. Code, s. 285.60(7), Wis. Stats. and 42 USC 7661a]
- L.3. The following items are provided per s. NR 407.09(1)(d) and (f), Wis. Adm. Code:
- L.3.a. It is not a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with this permit. [s. NR 407.09(1)(f)2., Wis. Adm. Code]
- L.3.b. The filing of a request by the permittee for a permit revision or revocation, or the filing of a notification of planned changes under s. NR 407.025, Wis. Adm. Code, or of anticipated noncompliance, does not stay any permit condition. [s. NR 407.09(1)(f)3., Wis. Adm. Code]
- L.3.c. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege, nor does it authorize any injury to private property or any invasion of personal rights. [s. NR 407.09(1)(f)4., Wis. Adm. Code]
- L.3.d. The provisions of this permit are severable. In the event of a successful challenge to any portion of the permit, all other portions of the permit remain valid and effective. [s. NR 407.09(1)(d), Wis. Adm. Code]

**M. Recordkeeping Requirements.**

- M.1. The permittee shall maintain the following records, per s. NR 439.04, Wis. Adm. Code:
- M.1.a. Records of all sampling, testing and monitoring conducted or required under chs. NR 400 to 499 or under this permit. Records of sampling, testing or monitoring shall include the following:
- M.1.a.(1) The date, monitoring site and time and duration of sampling, testing, monitoring or measurements.

- M.1.a.(2) The dates the analyses were performed.
- M.1.a.(3) The company or entity that performed the analysis.
- M.1.a.(4) The analytical techniques or methods used, including supporting information such as calibration and maintenance records of all original recording charts for continuous monitoring instrumentation including emissions or equipment monitors.
- M.1.a.(5) The results of the analyses.
- M.1.a.(6) The relevant operating conditions that existed at the time of sampling, testing, monitoring or measurement.
- M.1.b. Records detailing all malfunctions which cause any applicable emission limitation to be exceeded, including logs to document the implementation of the plan required under s. NR 439.11, Wis. Adm. Code;
- M.1.c. Records detailing all activities specified in any compliance schedule approved by the Department under chs. NR 400 to 499, Wis. Adm. Code; and
- M.1.d. Any other records relating to the emission of air contaminants which may be requested in writing by the Department.
- M.2. The owner or operator of a source not subject to s. NR 445.05(6), Wis. Adm. Code, shall maintain the following records in writing at the source, as appropriate:
  - M.2.a. The hazardous air contaminants in Table 5 of s. NR 445.04 the source is capable of emitting.
  - M.2.b. The allowable emissions for each hazardous air contaminant identified in M.2.a. above for each emissions unit.
  - M.2.c. The methods used to calculate allowable emissions under M.2.b. above, including:
    - M.2.c.(1) All calculations which show the dimensional units for all values used.
    - M.2.c.(2) Emission factors used and reference to stack tests, mass balance calculations or EPA documents that the emission factor is based on.
  - M.2.d. Information to support exemption claims including fuels used, laboratory status or downwash minimization stack height calculations as appropriate. [s. NR 445.05(4r)(c), Wis. Adm. Code\*]
- M.3. Owners and operators of facilities required to file emission inventory reports shall keep accurate and reliable records sufficient to enable verification of the reports by the Department. [s. NR 438.03(4), Wis. Adm. Code]
- M.4. Copies of all records and reports required under this permit shall be retained by the permittee for a period of 5 years. [s. NR 439.04(2), Wis. Adm. Code]

**N. Compliance Certification.**

N.1. The permittee shall submit compliance certifications to the Department, and part 70 sources shall also submit this compliance certification to the United States Environmental Protection Agency. [s. NR 439.03(1)(c) and (9), Wis. Adm. Code]

N.1.a. The certification shall be submitted according to the schedule established in Part I of the permit. [s. NR 439.03(1)(c), Wis. Adm. Code]

N.1.b. The certification shall include the following:

N.1.b.(1) Identification of each permit term or condition that is the basis of the certification;

N.1.b.(2) The compliance status of the source with respect to each term or condition identified in N.1.b.(1);

N.1.b.(3) Whether compliance was continuous or intermittent;

N.1.b.(4) Method(s) used for determining the compliance status, currently and over the previous 12 month period;

N.1.b.(5) Compliance status with respect to 40 CFR 68 (Accidental Release Prevention) including registration and submission of the risk management plan, as specified in 40 CFR 68.160 and 68.150, respectively, if applicable.

N.1.b.(6) Other information required to determine the compliance status of the source, as specified in this permit. [s. NR 439.03(8), Wis. Adm. Code]

N.2. Compliance certifications shall be signed by a responsible official of the source. The responsible official shall certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [s. NR 439.03(10), Wis. Adm. Code]

**O. Required Air Emission Inventory Reports.**

The permittee shall annually submit to the Department an emission inventory report of annual, actual emissions or throughput information in accordance with ch. NR 438, Wis. Adm. Code. [s. NR 438.03, Wis. Adm. Code]

**P. Annual Emission Fees.**

The permittee shall pay an annual emissions fee to the Department at the rate specified in s. 285.69(2), Wis. Stats. [ss. NR 410.04 and NR 407.09(1)(e), Wis. Adm. Code]

**Q. General Provisions for Hazardous Air Pollutant MACT Standards.**

The general provisions in ch. NR 460, Wis. Adm. Code, apply to any permittee that is affected or becomes affected by a standard promulgated by EPA under section 112 of the act (42 USC 7412). [s. NR 460.01, Wis. Adm. Code]

## **R. Stratospheric Ozone Protection.**

R.1. Federal Requirements. (Call 1-800-296-1996 for information)

R.1.a. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

R.1.a.(1) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to section 82.106.

R.1.a.(2) The placement of the required warning statement must comply with the requirements pursuant to section 82.108.

R.1.a.(3) The form of the label bearing the required warning statement must comply with the requirements pursuant to section 82.110.

R.1.a.(4) No person may modify, remove or interfere with the required warning statement except as described in section 82.112.

R.1.b. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in 40 CFR Part 82, Subpart B:

R.1.b.(1) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to section 82.156.

R.1.b.(2) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to section 82.158.

R.1.b.(3) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to section 82.161.

R.1.b.(4) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to section 82.166 (the term, "MVAC-like appliance", is defined in section 82.152).

R.1.b.(5) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to section 82.156.

R.1.b.(6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to section 82.166.

R.1.c. If the permittee manufactures, transforms, imports or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

- R.1.d. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term “motor vehicle” as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term “MVAC” as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo or system used on passenger buses using HCFC-22 refrigerant.
- R.1.e. The permittee may be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program.

[s. 285.65(12), Wis. Stats.]

R.2. State Requirements. (Call 1-608-264-6049 for information)

R.2.a. During the salvaging, dismantling or transporting of refrigeration equipment, no person may knowingly or negligently release ozone-depleting refrigerant to the environment, except for minimal releases that occur as a result of efforts to transfer ozone-depleting refrigerant into storage tanks. [s. 285.59(2r)(a), Wis. Stats.\*]

R.2.b. No person may knowingly or negligently release from a storage tank to the environment ozone-depleting refrigerant that was removed during the salvaging, dismantling or transporting of refrigeration equipment, except for minimal releases that occur as a result of efforts to transfer ozone-depleting refrigerant into refrigeration equipment or other storage tanks. [s. 285.59(2r)(am), Wis. Stats.\*]

R.2.c. No person may salvage or dismantle any refrigeration equipment unless:

R.2.c.(1) That person holds and prominently displays an annual registration of certification obtained from the Department under s. NR 488.04, Wis. Adm. Code;

R.2.c.(2) That person uses refrigerant recovery equipment approved by the Department under s. NR 488.07, Wis. Adm. Code, to transfer remaining ozone-depleting refrigerant from each piece of refrigeration equipment into storage tanks; and

R.2.c.(3) Individuals who use the approved refrigerant recovery equipment have, or are working under the direct supervision of individuals who have, the qualifications required under s. NR 488.08, Wis. Adm. Code. [s. NR 488.03(3), Wis. Adm. Code\*]

R.2.d. Any person who sells, gives or transports refrigeration equipment to a scrap metal processor shall:

R.2.d.(1) Transfer ozone-depleting refrigerant from the refrigeration equipment into a storage tank using approved refrigerant recovery equipment or obtain and possess documentation that another person performed the transfer; and

R.2.d.(2) Provide documentation to the scrap metal processor that he or she has complied with



R.2.d.(1).

Note: Sample forms for the documentation of compliance with R.2.d.(1) are available from the Bureau of Air Management CFC Program.

Exemption: R.2.d.(1) and R.2.d.(2) do not apply to a person who sells, gives or transports refrigeration equipment to a scrap metal processor when that processor has agreed in writing to transfer the ozone-depleting refrigerant into a storage tank using approved refrigerant recovery equipment and that the processor is registered with the Department under s. NR 488.04. [s. NR 488.05, Wis. Adm. Code\*]

R.2.e. Any person who transports, for the purposes of salvaging or dismantling, refrigeration equipment that contains ozone-depleting refrigerant shall certify to the Department that person will not knowingly or negligently release ozone-depleting refrigerant to the environment, except for minimal releases that occur as a result of refrigerant recovery efforts. This certification shall be submitted annually, along with a description of the safe transport methods to be used, and the fees required under s. NR 488.11, Wis. Adm. Code. [s. NR 488.10, Wis. Adm. Code\*]

**GARVEY McNEIL &  
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June 14, 2006

VIA CERTIFIED MAIL and ELECTRONIC MAIL

Wisconsin Department of Natural Resources  
Central Office  
101 S. Webster Street  
Box 7921  
Madison, WI 53707-7921  
Attn.: Roger Fritz.

Re: Comments on the Proposed Draft Title V Operating Permit Renewal for the Oak Creek Power Plant, Located at 11060 S. Chicago, Oak Creek, Milwaukee County, Wisconsin, Air Pollution Operation Permit Renewal No. 241007690-P10

Dear Mr. Fritz,

These comments are submitted on behalf of the Sierra Club, Clean Wisconsin and Wisconsin Public Interest Research Group, pursuant to Wis. Stat. ch. 285, Wis. Admin. Code ch. NR 407, and 40 C.F.R. Pt. 70. As with prior permit comments submitted by these organizations, we appreciate the Department of Natural Resources' ("DNR") efforts in improving the Title V program in Wisconsin. In a cooperative effort with DNR, we are undertaking an effort to review and comment on permits for large sources of air pollution. As explained below, the proposed permit for the Oak Creek Power

Plant ("OCP") must be modified in a number of ways to ensure adequate protection or air quality.

**I. The Permit for OCP Must Include A Compliance Schedule**

Every Title V permit must "assure[] compliance by the source with all applicable requirements." CAA § 504(a); 40 C.F.R. § 70.1; Wis. Stat. § 285.64(1); Wis. Admin. Code § NR 407.09(4)(b). "Applicable requirements" include State Implementation Plan ("SIP") requirements and preconstruction requirements, including the requirement to obtain a preconstruction permit and apply best available control technology. 40 C.F.R. § 70.2; Wis. Stat. § 285.64(1); Wis. Admin. Code § NR 400.02(26). Further, every Title V permit application must disclose all applicable requirements and any violations at the facility. 42 U.S.C. § 7661b(b); 40 C.F.R. §§ 70.5(c)(4)(i), (5), (8); Wis. Admin. Code § NR 407.05(4)(h). For applicable requirements, including new source review requirements and other preconstruction permitting requirements, for which the source is not in compliance at the time of permit issuance, the source's application must provide a narrative description of how the source intends to come into compliance with the requirements. 42 U.S.C. § 7661b(b); 40 C.F.R. § 70.5(c)(8)-(9); Wis. Admin. Code § NR 407.05(4)(h)2.c. The application must also include a compliance schedule for any applicable requirements for which the source is not in compliance. 40 C.F.R. § 70.5(c)(8)(iii); Wis. Admin. Code § NR 407.05(4)(h)3.c. Additionally, WEPCO is

required to certify its compliance with its application and annually. Wis. Admin. Code § NR 407.05(4)(i). The U.S. EPA Administrator has described these requirements as follows:

40 C.F.R. § 70.5(c)(8)(iii)(C) and 70.6(c)(3) require that, if a facility is in violation of an applicable requirement and it will not be in compliance at the time of permit issuance, its permit must include a compliance schedule that meets certain criteria. For sources that are not in compliance with applicable requirements at the time of permit issuance, compliance schedules must include 'a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance.' 40 C.F.R. § 705(c)(8)(iii)(C).

*In the Matter of Onyx Environmental Services, Order Responding to Petitioners' Request That the Administrator Object to Issuance of a State Operating Permit, pp. 6-7 (Adm'r Feb. 1, 2006) (hereinafter "Onyx").*

Based on our review, WEPCO is not in compliance with all applicable requirements, specifically Prevention of Significant Deterioration ("PSD") permitting requirements, and failed to submit a compliance schedule or narrative description of how the source will achieve compliance with PSD.

A. USEPA Found Violation of New Source Review At All WEPCO Plants.

EPA explicitly found that WEPCO violated New Source Review (including PSD) requirements of the Clean Air Act and the Wisconsin SIP. EPA filed an enforcement action against WEPCO in federal court for these violations. *United States v. Wisconsin*

*Electric*, Case No. 03-C0371 (E.D.Wis., filed April 29, 2003). According to the allegations by the United States, "between 1982 and the present, Wisconsin Electric modified and thereafter operated certain coal-fired electricity generating units without first obtaining a PSD permit authorizing the construction and without installing the best available control technology to control emission of sulfur dioxide, nitrogen oxides, and particulate matter, as required by the Act, applicable federal regulations, and the... Wisconsin SIP[]." *U.S. v. Wisconsin Electric*, Case No. 03-C-0371, Compl. ¶ 2 (Apr. 29, 2003), Appx. 1-2. Specific to the OCPP, U.S. EPA and U.S. DOJ found:

At various times, Wisconsin Electric commenced construction and operating of major modifications... at its Oak Creek Plant in Wisconsin. These major modifications included, but were not limited to, replacement of economizers, induced draft fans, waterwall tubes, reheaters and superheaters on one or more units at the plant. These modifications resulted in significant net emissions increases, as defined by 40 C.F.R. § 52.21(b)(3)(i), of one or more of the following pollutants: NO<sub>x</sub>, SO<sub>2</sub>, and PM.

Wisconsin Electric violated and continues to violate Section 165(a) of the Act, 42 U.S.C. § 7475(a), and the PSD regulations set forth in 40 C.F.R. § 52.21, as incorporated into the Wisconsin SIP, by, inter alia, undertaking such major modifications at units located at the Oak Creek Plant and operating these modified units at the plant without: (a) obtaining a PSD permit, as required by 40 C.F.R. § 52.21(i) and the Wisconsin SIP; (b) applying best available control technology for NO<sub>x</sub>, SO<sub>2</sub>, and PM, as required by 40 C.F.R. § 52.21(j) and the Wisconsin SIP; (c) demonstrating that construction or modification would not cause or contribute to air pollution in violation of any national and/or

Wisconsin ambient air quality standard or any specified incremental amount, as required by 40 C.F.R. § 52.21(m) and the Wisconsin SIP; (d) performing an analysis of the ambient air quality in the area, as required by 40 C.F.R. § 52.21(m) and the Wisconsin SIP; (e) submitting to EPA or Wisconsin all information necessary to conduct the analysis or make the necessary determinations under 40 C.F.R. § 52.21, as required under 40 C.F.R. § 52.21(n); and (f) obtaining the required Wisconsin state permits.

Compl. ¶¶ 41, 43, Appx. 12-13.

These findings by USEPA conclusively demonstrate non-compliance for purposes of the Title V review process. *See e.g., New York Public Interest Research Group v. Johnson*, 427 F.3d 172, 180 (2<sup>nd</sup> Cir. 2005). The filing of a civil action is USEPA's official finding that the OCPP is in violation of PSD preconstruction permitting requirements. *Id.* at 181; 42 U.S.C. § 7413(a)(1). A failure to require compliance with PSD requirements that were triggered by unpermitted major modifications is a deficiency in the Title V permit. *See In re Onyx*, supra, p. 8.

B. OCPP has undergone a number of major modifications that subject the facility to PSD requirements.

Even if EPA had not identified PSD violations, records available to the public and the DNR show PSD violations.

1) **The PSD Program.**

The CAA's NSR program involves a permitting program for major sources, requiring such sources to undergo analysis of air quality impacts and install "best

available control technology for each pollutant” when the facility is either constructed or modified. 42 U.S.C. § 7475(a)(3)-(4); 40 C.F.R. § 52.21; Wis. Admin. Code § NR 405.08(3). Congress intended that the NSR program eventually apply to all large sources as they made modifications. *See e.g., WEPCO Power Co. v. Reilly*, 893 F.2d 901, 908 (7<sup>th</sup> Cir. 1990) (Congress deferred application of NSR requirements only until the source alters its equipment and increases emissions); *U.S. v. Ohio Edison Co.*, 276 F.Supp. 2d 829, 850 (S.D. Ohio 2003) (Congress did not intend that existing sources be granted perpetual immunity from installing modern pollution controls). Specifically, a modified source must meet the requirements in NR 405.08 through 405.16, including complying with an emission limit based on best available control technology (“BACT”) and undergoing an analysis of impacts on ambient air. Wis. Admin. Code § NR 405.07.

A “major modification” is: “any physical change in or change in the method of operation of a major stationary source that would result in a significant net emissions increase of any air contaminant subject to regulation under the [Clean Air Act].” Wis. Admin. Code § NR 405.02(21); *In re Tennessee Valley Authority*, 9 E.A.D. 357, 388 (EAB 2000) (*citing WEPCo. v. Reilly*, 893 F.2d 901, 907-09 (7<sup>th</sup> Cir. 1990)). The term “physical change” is very broad. “[T]he words ‘any physical change’ included in the definition of ‘modification’ must be given their plain meaning—that is, that any physical change to the units at issue trigger [PSD] compliances, assuming (1) the change also causes an

increase in emissions and (2) the change is not excluded by a regulatory exemption.”

*Ohio Edison*, 276 F.Supp.2d at 854; *New York v. EPA*, Slip Op. pp. 10-15 (D.C. Cir. 2006).<sup>1</sup>

To determine if a physical change results in a “significant net emissions increase,” for an electric generating unit like OCPP, the historic “actual” emissions must be compared to the future projected emissions. For PSD purposes, an emission increase is measured as total annual emissions. 40 C.F.R. § 52.21(b)(3); *WEPCo.*, 893 F.2d at 905; *Ohio Edison*, 276 F.Supp. 2d at 862-63; *SIGCO*, 245 F.Supp.2d at 998; *Puerto Rican Cement Co. v. EPA*, 889 F.2d 292, 298 (1<sup>st</sup> Cir. 1989). The historic actual emissions are the emission during the 24 months preceding the commencement of the modification. Wis. Admin. Code § NR 405.02(1)(a). The post-modification, projected emissions are calculated based upon the “representative actual emissions of the unit...” Wis. Admin. Code § NR 405.02(1)(d). The applicable regulations provide that future emissions should be projected based upon: historical system operations data, the company’s own

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<sup>1</sup> A routine maintenance, repair, or replacement, by itself, is not a modification. However, very few physical changes are routine, and must meet a four-factor test including the nature, extent, purpose, frequency and cost of the work. *WEPCo.*, 893 F.2d at 910 (*quoting* Sept. 9, 1988 Memorandum from Don R. Clay, USEPA, to David A. Kee, “Applicability of Prevention of Significant Deterioration (PSD) and New Source Performance Standards (NSPS) Requirements to the WEPCO Power Company Port Washington Life Extension Project.”). Moreover, [r]outine maintenance, repair, and replacement occurs regularly, involves no permanent improvements, is typically limited in expense, is usually performed in large plants by in-house employees, and is treated for accounting purposes as an expense. In contrast to routine maintenance stand capital improvements which generally involve more expense, are large in scope, often involve outside contractors, involve an increase of value to the unit, are usually not undertaken with regular frequency, and are treated for accounting purposes as capital expenditures on the balance sheet.” *Ohio Edison*, 276 F.Supp. 2d at 834 (citations omitted). Routine maintenance must be interpreted as very narrow. *U.S. v. So. Ind. Gas & Elec. Co.*, 245 F.Supp.2d 994, 1009 (S.D. Ind. 2003) (“Giving the routine maintenance exemption a broad reading could postpone the application of NSR to many facilities, and would flout the Congressional intent evinced by the broad definition of medication.”). None of the modifications addressed in these comments are routine. Moreover, it is WEPCo.’s burden to prove the application of the routine maintenance exemption and WEPCo. has never asked for a DNR determination, nor proven the application of the routine maintenance exception.



representations, filings with state or federal regulatory authorities and compliance plans. 40 C.F.R. §§ 52.21(b)(21)(ii), (b)(33)(i). In other words, for an electric generating unit, the post-modification emissions are presumed to be the emissions that will result from the expected operating hours and conditions, based on the fuel and operating conditions expected.

It is important to note that the determination of whether a change will result in a “significant net emission increase” must be based on the information available before the modification work begins, and not after the modification was complete. *Ohio Edison*, 276 F. Supp.2d at 865. PSD applicability is a pre-construction determination based on projected emissions. *Id.* at 884-85 (“It is the projected net emissions increase that the Defendant could have predicted prior to the projects being undertaken that determines whether there is a [PSD] violation.”). When a physical change is made to reduce the frequency or duration of forced outages (i.e., replacing a troublesome part), the resulting increase in annual operating time results in increased emissions. Wisconsin utilities typically determine the emission increased based on the expected decrease in forced outage time, multiplied by the emission rate. *See e.g., Wisconsin Power & Light, Columbia Generating Station Unit 1, Economizer-Final Superheat Replacement (Aggregated), Emissions Increase Based on Performance 24-Months Prior to Project (January 2003-December 2004)*, Appx. 17 (“Alliant Columbia 1 Estimate”)

(estimating emissions increase for PSD applicability by multiplying expected increase in operating hours- or decrease in forced outage time- multiplied by emission rate). If the annual increase in emissions exceeds the "significance" threshold, the modification is subject to PSD. Wis. Admin. Code § NR 405.02(27)(a), Table A (see also 40 C.F.R. § 52.21(b)(2)(I))

**2) WEPCO's Planned Replacement of High Pressure Turbine  
Steam Stop and Control Valves is Subject to PSD**

WEPCO filed an application with the Public Service Commission of Wisconsin ("PSCW") on October 21, 2005. In its application, WEPCO sought permission to replace the high-pressure turbine main steam stop and control valves on Units 5 and 6 at a cost of \$14.9 million. WEPCO's basis for the request was that these parts were regularly causing forced outages of the Units, causing lost generating capacity. By replacing the steam stop and valves, WEPCO sought to reduce these outages, thereby increasing annual operating hours. Specifically, WEPCO provided the following justification to the PSCW:

*Reason for the Project*

The high-pressure turbine main steam stop and control valves on Units 5 and 6 at Oak Creek are original equipment that was installed in 1959 and 1961 respectively. The equipment has experienced maintenance problems and failures that have affected the availability and operation of the generating units. These failures are the result of a metallurgical process known as "creep" which affects a wide range of metals operated above 1050 degrees Fahrenheit.

The plant has experienced occurrences of the control valves becoming stuck, causing the units to be taken out of service or preventing them from returning to service in order to make repairs. The most serious of these incidents occurred in 2000 and 2003. In both cases the outages to repair the equipment were in excess of two weeks.

Additional major repairs that have required long outages have been related to cracks found in the stop valve bodies. The most extensive repair of this type occurred in 1997, and it required the unit to be out of service for twelve weeks. Since that time, other cracks have occurred and have required outages of two to three weeks to repair. Repairs to these valves are labor-intensive.

Application for Authority: Oak Creek Power Plant- Units 5 and 6; Main Steam Stop and Control Valve Replacement 1 (Oct. 21, 2005), Appx. 18-19 (emphasis added). The forced outages resulting from the replaced equipment exceeded 1,674<sup>2</sup> hours over the 5 years preceding the application to the PSCW. *Id.* at 2. These hours are as follows:

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<sup>2</sup> WEPCO later corrected this to 1666 hours. See *WEPCO Resp. to PSCW Data Req.*, p. 5.

| <u>Year</u> | <u>Unit</u> | <u>Component</u>  | <u>Problem</u>         | <u>Hours</u> |
|-------------|-------------|-------------------|------------------------|--------------|
| 2001        | 6           | Main Stop         | Valves Binding/leakage | 159          |
| 2002        | 6           | Main Stop Valve 2 | Severe leakage         | 510          |
| 2003        | 5           | Cntrl Vlvs 1 & 3  | Would not close        | 374          |
| 2003        | 6           | Main Stop Valve   | Binding/leakage        | 225          |
| 2005        | 5           | Main Stop Valve   | Binding valve          | 24           |
| 2005        | 6           | Main Stop Valve   | Severe leakage         | <u>374</u>   |
| Total       |             |                   |                        | 1666         |

See WEPCO Resp. to PSCW Data Req., p. 5; Appx. 27. Over five years, WEPCo averaged more than 330 hours of lost operation per year due to the valves and steam stops that it plans to replace as part of this project. WEPCO expects additional forced outages until the steam stops and control valves are replaced in 2007 and 2008, which will be during the term of the proposed permit. *Id.*

WEPCo's planned modification will trigger PSD requirements because they are physical changes that result in a significant net emission increase of PM, NO<sub>x</sub>, SO<sub>2</sub>, and other pollutants. OCPP emits approximately 0.44 tons of SO<sub>2</sub> and 0.17 tons of NO<sub>x</sub> per hour from Unit 5; 0.43 tons of SO<sub>2</sub> and 0.17 tons of NO<sub>x</sub> per hour from Unit 6; 0.58 tons of SO<sub>2</sub> and 0.18 tons per hour of NO<sub>x</sub> per hour from Unit 7; and 0.56 tons of SO<sub>2</sub> and 0.18 tons of NO<sub>x</sub> per hour from Unit 8. See USEPA Clean Air Markets, Unit Emissions Report for South Oak Creek (based on 2004 emissions); Appx. 29. At these rates, OCPP would have to regain only 91 hours per year to result in a significant net emission increase of SO<sub>2</sub>, and 235 hours per year to result in a significant net emission increase of

NOx. Based on WEPCo.'s own analysis submitted to the PSCW, WEPCo. intends to regain this much time, and more, by replacing the steam stops and valves.

These changes are also not routine. WEPCO admits that it has never replaced similar parts on any other unit. *See WEPCO Resp. to PSCW Data Request*, pp. 2-3 (Jan. 11, 2006); Appx. 24-25 (WEPCO has not replaced stop or control valves at any other unit). In fact, when asked, WEPCO knew of only one other similar replacement at any power plant, anywhere. *Id.* p. 3; Appx. 25. Therefore, an increase in hours of operation results in an increase in emissions and the Title V permit must require WEPCO to submit a pre-construction permit application for the proposed modifications.

**3) WEPCO Disclosed Modifications to USEPA in Responses to USEPA's CAA § 114 Requests for Information.**

In addition to WEPCo's planned major modification to replace valves and stops on Units 5 and 6, WEPCo undertook a number of historic changes that constitute major modifications without applying for the required PSD permits. Beginning in the late 1990s, the United States Environmental Protection Agency ("U.S. EPA") sent WEPCO requests for information pursuant to § 114 of the Clean Air Act. In response to U.S. EPA's requests, WEPCo. disclosed the following modifications at OCPP<sup>3</sup>:

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<sup>3</sup> Source: Response by WEPCo to EPA 114 Data Request Question Nos. 3 and 18; Appx. 147-152.

| Modification                    | Approved Date  | In-Service Date | Approved Amount | Total Expenditure | PSC Approval (If Known) <sup>4</sup>  | Hours of Forced Outage During Baseline Attributable to Part Replaced or Modified (If Known) <sup>5</sup> |
|---------------------------------|----------------|-----------------|-----------------|-------------------|---|--|
| Replace Economizer Unit 5       | May, 1981      | August, 1982    | 1,680,000       | 1,657,260         |   | > 78.7 <sup>6</sup>  |
| Replace Steam Air Heater Unit 5 | October, 1981  | August, 1982    | 870,000         | 857,852           |   | >105.93 <sup>7</sup>   |
| Replace Reheater Tubing Unit 7  | November, 1985 | January, 1987   | 997,865         | 1,074,141         | PSCW granted a certificate of authority to WEPCO to replace the tubes in the boiler reheat section front wall, front and rear reheat pendant tube assemblies and crossover tubing associated with the Oak Creek Unit 7. See Oak Creek Unit 7 Boiler | 594.54   |

<sup>4</sup> Files of the Public Service Commission of Wisconsin; Appx. pp. 154-167.

<sup>5</sup> Based on GADS data reported by WEPCO. See summary of GADS data at Appx. pp. 49-146. Full GADS data at pp. 190-339.

<sup>6</sup> WEPCO provided incomplete descriptions of cause of forced outage prior to 1982, therefore the number of hours is probably greater.

<sup>7</sup> Id.

|  |                |                              |            |            | <i>Reheat Tube Replacement, Case No. 6630-CE-115 (Ltr. Order Apr. 15, 1986).</i> |          |
|--|----------------|------------------------------|------------|------------|--|----------|
| Upgrade controls, replace fans, convert to direct fire, replace boiler penthouse tubing and structure, replace front waterwall tubing (to intermediate header) on Unit 5 | February, 1986 | June, 1989                   | 26,847,263 | 29,729,984 |  |          |
| Upgrade controls, replace fan, convert to direct fire, replace steam air preheater, replace boiler penthouse   | February, 1986 | June-July, 1989 <sup>8</sup> | 30,065,802 | 37,490,398 |  | > 1062.3 |

<sup>8</sup> WEPCo's response to data request No. 18 states July, 1988 as the date for replacement of the boiler reheat and superheat front pendants for Unit 6.

|   |                |                |         |         |  |      |
|---|----------------|----------------|---------|---------|--|------|
| tubing and structure, replace waterwall tubing to intermediate header, replace reheater, replace superheater pendants on Unit 6 |                |                |         |         |  |      |
| Replace air preheater tubing on Unit 7  | August, 1988   | December, 1988 | 449,500 | 412,320 |  |      |
| Replace feedwater heater Unit 5   | November, 1986 | July, 1987     | 326,624 | 329,410 |  |      |
| Replace feedwater heater Unit 8   | June, 1988     | April, 1988    | 546,000 | 587,788 |  |      |
| Replace feedwater heater Unit 7   | November, 1987 | December, 1988 | 344,153 | 342,463 |  |      |
| Replace air preheater tubing Unit 7   | August, 1988   | December, 1988 | 449,500 | 412,320 |  |      |
| Upgrade turbine governing system Unit 5   | November, 1988 | February, 1991 | 788,877 | 838,973 |  | >3.5 |



|   |                |                |           |           |   |         |
|---|----------------|----------------|-----------|-----------|---|---------|
| Upgrade turbine governing system Unit 6         | November, 1988 | March, 1990    | 799,090   | 991,321   |   | > 89.48 |
| Install gas ignition on Units 7 and 8           | July, 1989     | December, 1991 | 305,979   | 354,487   |   |         |
| Modifications to Steam headers on Units 5 and 6 | August, 1989   | December, 1989 | 2,396,773 | 2,565,594 | Approved: See Application of Wisconsin Electric Power Co. for Authority to Install a Process Steam Header and Steam Distribution System at the Oak Creek Power Plant Located in the City of Oak Creek, Milwaukee County, Case No. 6630-CE-174 (Ltr. Order Nov. 21, 1989). |         |
| Replace Economizer Unit 7                       | December, 1990 | May, 1992      | 3,020,782 | 2,990,387 | Approved: See Application of Wisconsin Electric Power Co. for Authority to Replace the Economizer Section of the Unit 7 Boiler at Its Oak Creek Power Plant in the City of Oak Creek, Milwaukee County,   | > 59.48 |

|  |                                 |  |           |           |  |          |
|--|---------------------------------|--|-----------|-----------|--|----------|
|  |                                 |  |           |           | Case No. 6630-CE-188 (Ltr. Order Apr. 2, 1991).  |          |
| Replace Economizer Unit 8  | September, 1991                 | July, 1995 <sup>9</sup>                  | 2,032,256 | 1,883,202 |  |          |
| Replace Reheat tubing Unit 8   | September, 1991                 | September, 1995                          | 652,062   | 650,069   |  | > 406.89 |
| Replace Economizer Unit 5  | November, 1999                  | April, 2002                              | 3,650,000 |           |  |          |
| Replace Economizer Unit 6  | November, 1999                  | June, 2001                               | 3,650,000 |           |  |          |
| Rewind generator Unit 5  | November, 1997                  | February, 1999                           | 2,182,500 | 2,198,966 |  |          |
| Replacement of Tubing and Tubing Support System for Furnace Wall, Unit 5 | Applied to PSCW on May 19, 1989 | PSCW granted permission in August, 1989. |           |           | <i>See Application by Wisconsin Elec. Power Co. for Authority to Replace the Tubing and Tubing Support System for the Furnace Rear Wall Radiant Superheater Section of Oak Creek Unit 5 Boiler, Milwaukee County, Case No. 6630-CE-166 (Ltr. Order Aug. 3, 1989)</i> | > 105.65 |

<sup>9</sup> WEPCo's response to Data Request No. 18 stated April, 1995 as the date that the economizer and reheat tube were replaced on Unit 8. This appears to be a discrepancy between the responses to Request 3 and Request 18.

|  |  |   |  |  |  |          |
|--|--|---|--|--|--|----------|
| Replaceme<br>nt of<br>Reheater<br>Tubing at<br>OCPP Unit<br>5. |  | PSCW<br>granted a<br>certificate<br>of<br>authority<br>to<br>WEPCO<br>on July<br>22, 1986 |  |  | <i>See Replacement of<br/>         the Unit 5 Reheater<br/>         Tubing at the Oak<br/>         Creek Power Plant,<br/>         Case No. 6630-<br/>         CE-119 (Ltr.<br/>         Order July 22,<br/>         1986)</i> | > 171.84 |
|--|--|---|--|--|--|----------|

Many of these modifications involve replacing troublesome parts that cause recurring forced outages. For example, it is well-known that boiler tube failures are the primary cause of forced outages and that replacement of tubes is the most effective method to regain lost generating hours. *See e.g.,* David N. French, *Metallurgical Failures in Fossil Fuel Boilers*, John Wiley & Sons, Inc., New York, 2<sup>nd</sup> Ed. 1993 p. xiii (Appx. p. 168, *et seq*). Through the use of General Availability Data System (GADS) information reported by WEPCo. to the North American Reliability Council, the number of hours of lost operating time attributable to major components can be determined. Because a utility company replaces troublesome parts on a boiler, at least in part, to increase availability of the unit, the physical changes result in projected increased hours of operation. The increase in annual emission can be calculated by the emission rate, multiplied by the number of projected increased hours of operation. For example, if a unit experiences a significant number of forced outages due to clogging of the superheater, the projected increase in operating hours is equal to the annual hours of

lost operating due to the superheater during the baseline period. The increased emissions are equal to the number of regained (i.e., increased) hours of operation multiplied by the emission rate. *See e.g.* Alliant Columbia 1 Estimate; Appx. 17. As noted above, OCPP emits approximately 0.44 tons of SO<sub>2</sub> and 0.17 tons of NO<sub>x</sub> per hour from Unit 5; 0.43 tons of SO<sub>2</sub> and 0.17 tons of NO<sub>x</sub> per hour from Unit 6; 0.58 tons of SO<sub>2</sub> and 0.18 tons per hour of NO<sub>x</sub> per hour from Unit 7; and 0.56 tons of SO<sub>2</sub> and 0.18 tons of NO<sub>x</sub> per hour from Unit 8. *See* USEPA Clean Air Markets, Unit Emissions Report for South Oak Creek (based on 2004 emissions); Appx. 29. OCPP's hourly SO<sub>2</sub> emission rate decreased in the mid-1990s due to a fuel switch to lower sulfur coal. Before the coal switch OCPP's hourly SO<sub>2</sub> emissions were at least double what they were after the fuel switch. Additionally, OCPP's NO<sub>x</sub> rates decreased between the late 1990s and 2004. *See* Appx. 340-42. Using the most conservative, 2004, emission rates, regaining 91 hours of operating time per year results in a significant net emission increase of SO<sub>2</sub>, and 235 hours per year results in a significant net emission increase of NO<sub>x</sub>. Using 1992 emission rates, it would take only approximately 40 hours for SO<sub>2</sub> and 160 hours for NO<sub>x</sub>. Many of the modifications above should have been expected to result in significant net emission increases due to regaining annual operating hours. OCPP never received a permit for these modifications. The Part 70 permit must include

a compliance schedule to bring OCPP into compliance with PSD permitting requirements.

C. The Physical Changes At Units 5 and 6 Also Subject the Units to Lower Particulate Matter Limits.

The Draft Permit establishes a particulate matter limit for B25 and B26 of 0.15 lb/MMBtu, based on Wis. Admin. Code § NR 415.06(1)(c)2. That section of the Administrative Code applies to sources that were constructed or last modified on or before April 1, 1972. Wis. Admin. Code § NR 415.06(1). However, because Units 5 and 6 boilers have been modified since April 1, 1972, the limit in Wis. Admin. Code § NR 415.06(2)(c) applies instead, and limits particulate matter to 0.10 lb/MMBtu.

A "modification," for purposes of Wis. Admin. Code sections 415.06, is defined as:

[A]ny physical change in, or change in the method of operation of, a stationary source that increases the amount of emissions of an air contaminant or that results in the emission of an air contaminant not previously emitted. A modification does not include any changes identified in s. NR 406.04 (4).

Wis. Admin. Code § NR 400.02(99). In other words, any physical or operational change that is not exempt under NR 406.04(4) and which results in either an increased emission of any air contaminant or in the emission of a new air contaminant is a modification.

An "air contaminant," in turn, is defined broadly to include any "dust, fumes, mist,

liquid, smoke, other particulate matter, vapor, gas, odors, substances or any combination therefore..." Wis. Stat. § 285.01(1); Wis. Admin. Code § NR 400.02(12).

The projects listed above are all modifications that subject the units to lower PM limits in the SIP, in addition to PSD limits.

**II. A Permit Shield Is Not Appropriate If The DNR Has Not Determined That A Requirement Does Not Apply.**

The permit shield included in the draft permit exempts Units 5-8 from the New Source Performance Standard in Wis. Admin. Code §§ NR 440.19 and 440.20. Draft Permit p. 3. DNR claims that this exemption and accompanying shield is appropriate "because these units were constructed before August 17, 1971." *Id.* However, the NSPS standards for fossil-fuel-fired steam generators in NR 440.19 and NR 440.20 apply to any source that commences construction or modification after August 17, 1971, and September 18, 1978, respectively. Wis. Admin. Code §§ NR 440.19(1)(c), NR 440.20(1)(a)2. A "modification" includes "any physical change in, or change in the method of operation of, an existing facility which increases the amount of any air pollutant (to which a standard applies) emitted into the atmosphere by that facility or which results in the emission of any air pollutant (to which a standard applies) into the atmosphere not previously emitted." Wis. Admin. Code § NR 440.02(16) (emphasis added). If the boilers were modified since any applicable New Source Performance

Standard, much lower emission limits would apply – even if the boilers were “constructed” before 1971.

DNR makes no determination in the Analysis and Preliminary Determination (“PD”) or public record for the Draft Title V Permit whether Nelson Dewey has been “modified” since 1971 or 1972. Even if it did, DNR has no basis for such a determination because it has not reviewed all historic physical changes to the facility to determine if any resulted in an emission rate increase. *See* Wis. Admin. Code § NR 440.14(1). Therefore, DNR must either remove the permit shield from the permit or conduct a thorough investigation into all historic physical and operational changes at the facility and determine that none resulted in an emission rate increase.

**III. The Permit Should Clarify that Compliance With Each Permit Provision Is Mandatory.**

The Draft Permit defines the different sections of the Draft Permit on page 3. It defines the “limitations” section as:

all applicable emission limitations that apply to the source, including case-by-case limitations such as Latest Available Control Techniques (LACT), Best Available Control Technology (BACT), or Lowest Achievable Emission Rate (LAER). It will also list any voluntary restrictions on hours of operation, raw material use, or production rate requested by the permittee to limit potential to emit.

(emphasis added). This reference to “voluntary restrictions” is confusing. Typically such restrictions are “voluntary” in the sense that the source accepts the limits rather

than accepting more stringent emission limits or additional regulations (i.e., synthetic minor limits avoid PSD limits). However, the restrictions are not “voluntary” in the sense that the source has the choice of whether to comply. Compliance with all permit terms is mandatory. 42 U.S.C. § 7661a. DNR should clarify that any “voluntary restrictions” within the permit are not “voluntary limits.” A violation of any permit provision is a violation of the permit.

#### **IV. The Draft Permit Must Be Modified to Comply With the Credible Evidence Rule.**

The U.S. EPA and citizen suit litigants have the authority to bring enforcement actions “on the basis of *any information available* to the Administrator.” 42 U.S.C. § 7413 (emphasis added). This has been interpreted to mean any “credible evidence” that a court would accept. *Sierra Club v. Pub. Serv. Co. of Colorado, Inc.*, 894 F.Supp. 1455 (D.Colo. 1995) (neither CAA nor its implementing regulations limit the evidence of compliance or noncompliance to the methods set forth in a permit); *Credible Evidence Revisions*, 62 Fed. Reg. 8314 (Feb. 24, 1997); U.S. EPA Region 9 *Title V Permit Review Guidelines*, Sept. 9 1999, p. III-46. U.S. EPA has stated that this means that “any credible evidence can be used to show a violation of or, conversely, demonstrate compliance with an emissions limit.” *Id.* Permit language may not exclude the use of any data that may provide credible evidence. *Id.* The U.S. EPA views permit conditions providing



enumerated compliance test methods as tacitly excluding the use of other data to demonstrate compliance or noncompliance. This tacit exclusion violates the credible evidence rule. "The permit must specify the source's obligations for monitoring in a way that does not establish an exclusive link between the test method and the emissions limit." *Id.*

The Draft Permit contains numerous conditions which violate the credible evidence rule by specifying certain types of data to be used to determine compliance. "Permit language may not [s]pecify that only certain types of data may be used to determine compliance." *Id.* Identifying such data is not necessary according to the U.S. EPA. "In general, the permit should simply tell the source what it must do . . . It is not necessary to say that a term assures compliance or that an activity is required to assure compliance." *Id.* at III-47; *see also Credible Evidence Revisions*, 62 Fed. Reg. 8314; 40 C.F.R. § 51.212; 40 C.F.R. § 52.23.

The Draft Permit divides permit provisions into separate columns for: (1) pollutant; (2) limitation; (3) compliance demonstration; and (4) reference test methods, recordkeeping, and monitoring requirements. *See* Draft Permit pp. 3-4. The Preamble to the Draft Permit states that the "Compliance Demonstration" provisions (column "b" throughout the Draft Permit) lists the methods that "may be used to demonstrate compliance with the associated emission limit or work practice standard..." Draft

Permit at p. 3. This provision impermissibly enumerates the evidence that “may be used” to determine compliance. Because this language has the potential to be interpreted as limiting the evidence that can be used to enforce the Permit’s limits to only those items listed in the “Compliance Demonstration” column, it violates the credible evidence rule.

The fact that the Draft Permit defines “Compliance Demonstration” twice further adds to the problem. See Draft Permit at pp. 3-4. The second definition states that the “Compliance Demonstration” column of the permit “contains monitoring and testing requirements and methods to demonstrate compliance with the conditions.” This provision further appears to limit the “methods to demonstrate compliance” to only those methods specifically listed in column “b” of the Permit. Again, this violates the credible evidence rule by drawing an exclusive link between the identified monitoring requirements in column “b” and compliance with the applicable limits.

DNR attempts to account for the Credible Evidence Rule by including the following statement in the permit:

Notwithstanding the compliance determination methods which the owner or operator of a source is authorized to use under ch. NR 439, Wis. Adm. Code, the Department may use any relevant information or appropriate method to determine a source’s compliance with applicable emission limitations.

Draft Permit at 3 (emphasis added). There are two problems with this apparent attempt to comply with the credible evidence rule:

- 1) The sentence refers to the compliance demonstration methods in Wis. Admin. Code ch. 439, rather than those in the permit. It appears that DNR meant to say that “notwithstanding the provisions of this permit, any relevant information may be used to enforce applicable permit limits.” In other words, the provision allowing DNR to use any evidence despite NR 439 does not cure the provisions in the permit, itself, which restrict the evidence that can be used to prove violations.
- 2) The provision states that “the Department may use any relevant information...” By only noting the DNR’s ability to use any relevant evidence, the Draft Permit implies that U.S. EPA and citizens do not have the same ability. The credible evidence rule does not allow the DNR to limit EPA or citizens’ ability to use any credible evidence. Therefore, the carve-out for DNR enforcement authority fails to cure the credible evidence problems in the permit.

**V. The Permit Must Establish Compliance Demonstration Requirements that Ensure Continuous Compliance With Emission Limits.**

The permit should explicitly state that a violation of a “compliance demonstration” provision is a violation the underlying emission limit. *See* Wis. Admin. Code §§ NR 407.09(1)(c)(1)b. (monitoring must ensure compliance with reliable data for the relevant time period), NR 407.09(4)(a)1. (all operating permits shall contain compliance requirements “sufficient to assure compliance with the terms and conditions of the permit”). Moreover, the permit must establish a method to ensure continuous compliance with all permit limits. 40 C.F.R. §§ 70.6(a)(3)(i)(B); Wis. Admin.

Code § NR 407.09(1)(c)1.b.

The “periodic monitoring rule,” 40 C.F.R. § 70.6(a)(3)(i)(B), requires that “[w]here the applicable requirement does not require periodic testing or instrumental or noninstrumental monitoring (which may consist of record keeping designed to serve as monitoring), [each title V permit must contain] periodic monitoring sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the permit. . . Such monitoring requirements shall assure use of terms, test methods, units, averaging periods, and other statistical conventions consistent with the applicable requirement.

*In the Matter of Midwest Generation, LLC, Waukegan Generation Station*, Order Responding to Petitioner’s Request That the Administrator Object to Issuance of a State Operating Permit at p. 19 (September 22, 2005) (hereinafter “*Waukegan*”) (citing 69 Fed. Reg. at 3202, 3204 (Jan. 22, 2004)); see also, *Appalachian Power Co. v. EPA*, 208 F.3d 1015 (D.C. Cir. 2000); Carraway, Candace, U.S. EPA Office of Air Quality Planning and Standards, How Do I Review Each Applicable Requirement for Adequate Periodic Monitoring? at p. 2 (June 2000).

In the past, DNR has asserted that a permittee’s failure to comply with the compliance demonstration requirements in a Title V permit does not constitute a violation of the underlying limit.<sup>10</sup> This is erroneous. As noted above, because the

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<sup>10</sup> Note that a source’s failure to comply with the ‘compliance demonstration’ permit provisions will also constitutes a violation of the monitoring requirement, in addition to a violation of the emission limit. Wis. Admin. Code § NR 407.09(1)(f)1. (“permittee has the duty to comply with all conditions of the permit” (emphasis added)).

underlying SIP limit in NR 415 does not include a monitoring requirement, the Title V permit's compliance demonstration provisions must be sufficient to yield continuous data from which the source's compliance can be determined at any given point in time. 40 C.F.R. §§ 70.6(a)(3)(i)(B); Wis. Admin. Code § NR 407.09(1)(c)1.b. In other words, the "compliance demonstration" provisions in the permit must be sufficient such that the data collected and recorded can be used to demonstrate non-compliance with the underlying limit, without the need for additional testing. DNR must set compliance demonstration requirements that directly correlate to compliance or non-compliance. The permit must require the source to comply with a specific parameter range that correlates to compliance with the PM limit, and to monitor and record parameter values to prove compliance.

The Draft Permit requires the use of an Electrostatic Precipitator ("ESP") as the method to demonstrate compliance with the permit limits for PM. Draft Permit §§ I.A.1.b.(3), I.B.1.b.(3). The Draft Permit also requires the source to monitor the primary voltage, secondary voltage, primary current in amps, and secondary current in amps. Draft Permit §§ I.A.1.b.(4), I.B.1.b.(4). However, the Draft Permit fails to "include a correlation between these measurements and compliance with the PM emission limitations." *Waukegan*, supra, p. 20; see also *In Re Port Hudson Operation Georgia Pacific*, Petition No. 6-03-01, at pages 37-40 (May 9, 2003) ("Georgia Pacific"); *In Re Doe Run*

*Company Buick Mill and Mine*, Petition No. VII-1999-001, at pages 24-25 (July 31, 2002) (“Doe Run”).

U.S. EPA has determined that if opacity is used as a surrogate for continuous PM monitoring, the permit must specify the opacity range that shows PM compliance based on stack testing. *Waukegan* at pp. 20-21. Alternatively, if ESP parameters are used, USEPA has consistently required the permit to specify the upper and/or lower range for each parameter that establishes compliance with the PM limit. *Id.*; *In the Matter of Dunkirk Power LLC*, Order Objecting to Proposed Operating Permit No. II-2002-02 at 20 (Adm’r July 31, 2003) (“Once the operating ranges have been established for the ESP operating parameters [based on emission stack tests], operating the ESP outside of any of these ranges would constitute a violation of the title V permit.”); *In the Matter of Oxy Vinyls, LP, Louisville, Kentucky*, Objection to Proposed Part 70 Operating Permit No. 212-99-TV (Feb. 1, 2001) (“The permit must specify the parametric range or procedure used to establish that range, as well as the frequency for re-evaluating the range.”).<sup>11</sup> For example, USEPA objected to a proposed Title V permit for Tampa Electric’s F.J. Gannon Station for failing to include a parameter range that correlates to an emission rate:

While the permit does include parametric monitoring of emission unit and control equipment operations in the O & M plans for these units... the parametric monitoring scheme that has been specified is not adequate. The parameters to

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<sup>11</sup> These USEPA decisions are based on 40 C.F.R. § 70.06(a)(1), and any modification to USEPA’s interpretation of 40 C.F.R. § 70.6(c) would not change the requirement to correlate a parameter range and the emission rate.

be monitored and the frequency of monitoring have been specified in the permit, but the parameters have not been set as enforceable limits. In order to make the parametric monitoring conditions enforceable, a correlation needs to be developed between the control equipment parameter(s) to be monitored and the pollutant emission levels. The source needs to provide an adequate demonstration (historical data, performance test, etc.) to support the approach used. In addition, an acceptable performance range for each parameter that is to be monitored should be established.

*In the Matter of Tampa Electric Co., F.J. Gannon Station, Objection to Proposed Part 70 Operating Permit No. 0570040-002-AV (Sept. 8, 2000) (emphasis added); see also In the Matter of the Huntley Generating Station, Order Objecting to Operating Permit No. II-2002-01 at 21-22 (Adm'r July 31, 2003) (same).*

Additionally, the Permit should contain the requirements of the Compliance Assurance Monitoring Rule. 40 C.F.R. pt. 64. The boilers (Units 5-8) at OCPP are a major source that uses a control device to control PM and has pre-control potential emissions of PM over 100 tons per year. See 40 C.F.R. § 64.2. Further, if P31 has maximum theoretical emissions greater than 100 tons per year, it must be included in the CAM plan. *Id.* The draft permit did not include a CAM plan, and there was no opportunity for public review of the CAM plan. Sierra Club was able to obtain a proposed CAM plan from DNR's files, but it is not clear whether this CAM plan is the

one DNR intends to incorporate into the final permit.<sup>12</sup> If so, there are a number of problems with the proposed plan.

The plan establishes an opacity to PM correlation whereby WEPCO will determine a PM violation if its opacity exceeds 20% for three consecutive hours excluding startup, shutdown and malfunction. The proposed CAM plan notes that this averaging period was selected based on the typical time required to conduct an emission stack test. However, the applicable PM limits in NR 415.06 are instantaneous limits, not three hour averages. The fact that a stack test may take 3 hours does not change the instantaneous limit in NR 415.06. The proposed CAM plan effectively rewrites the applicable limit as if it were a 3 hour average. Moreover, even if NR 415.03 was based on a three hour average, the CAM plan does not use a three-hour average. Instead, the proposed CAM plan would require opacity greater than 20% for an entire three consecutive hours, rather than the average opacity to be over 20% for three hours. In other words, under WEPCO's proposed CAM plan, if opacity was 99% for two hours and fifty-nine minutes, and 19% for the last minute, it would not trigger any requirements under the CAM plan.

Furthermore, the proposed CAM plan is misleading because it is based on the use of Method 17 to test PM. Method 17 does not measure condensable fraction

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<sup>12</sup> We Energies Oak Creek Power Plant Compliance Assurance Monitoring CAM Plan (August 28, 2003), attached to Letter from Paul White, Wisconsin Energy, to Keith Pierce, WDNR (Sept. 5, 2003).



particulate matter, despite the fact that the limits in NR 415.06 apply to total PM (filterable and condensable). WEPCO's proposed plan is based on incomplete sampling for PM and, therefore, is insufficient to determine whether the proposed 20% opacity surrogate is sufficient to demonstrate compliance with the applicable limits.

Additionally, the PM limits in NR 415.06 apply at all times, including startup, shutdown, and malfunction. However, WEPCO's CAM plan excludes opacity monitoring as a surrogate for PM during startup, shutdown, and malfunction. This effectively creates a startup/shutdown/malfunction exemption from the NR 415 PM limits despite the fact that none exists in NR 415.06.<sup>13</sup> The CAM plan and the permit must state that any exceedances of 20% opacity- not a 3 hour average and including startup/shutdown/malfunction- is a violation of the PM limit. For each of these reasons, the CAM plan is flawed.

#### **VI. The Permit Illegally Exempts The Facility From Applicable Limits During Startup, Shutdown and Malfunction Periods.**

The draft permit purports to exempt excess emissions during startup and shutdown. For example, the opacity limits in sections I.A.2.a.(1) and I.B.5.a.(1) of the Draft Permit exempt excess opacity emissions during "periods of normal start-up and shut-down," which are defined "in the start-up and shut-down plan." Normal startup and shutdown periods, however, are not exempted from the emission limit cited in the permit: NR 431.04(2). Instead, only the exemptions in NR 431.05 apply. NR 431.05

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<sup>13</sup> There is no shutdown or malfunction exemption from the applicable 20% opacity limit either. This is addressed below.

states "[w]hen combustion equipment is being cleaned or a new fire started, emissions may exceed number 1 of the Ringlemann chart or 20% opacity but may not exceed number 4 of the Ringlemann chart or 80% opacity for 6 minutes in any one hour. Combustion equipment may not be cleaned nor a fire started more than 3 times per day." Wis. Admin. Code NR 431.05(1). Additionally, emissions may exceed 20% opacity as permitted by DNR for operating tests, use of emergency equipment or other good cause. Wis. Admin. Code NR 431.05(2). Notably NR 431.05 does not contain an exception from the opacity limit for shutdown periods. Nor is the exception for startup without limitation- the opacity during startup cannot exceed 80% for more than 6 minutes and startup cannot occur more than 3 times per day.

The draft permit cites to NR 436.03(2)(b) for the startup/shutdown exemption. However, NR 436.03(2), and its prior version in NR 154.09, were never incorporated into the Wisconsin State Implementation Plan ("SIP"). Therefore, to the extent that NR 436.03(2) exempts emissions that are otherwise prohibited by the SIP (*i.e.*, opacity greater than 20% during shutdown), NR 436.03(2) is invalid. Once EPA approves a SIP, it becomes binding federal law until EPA approves a modification. *See American Lung Assoc. v. Kean*, 871 F.2d 319, 322 (3<sup>rd</sup> Cir. 1989); *Ford Motor Co.*, 814 F.2d 1099 (6<sup>th</sup> Cir. 1987); *Coalition for Clean Air, Inc. v. So. Coast Air Quality Mgmt. Dist.*, 1999 WL 33842864, \* 1 (C.D. Cal. 1999); *Oregon Environmental Council v. Oregon Dept. of Environmental Quality*, 1992 WL 252123 (D.Or. 1992). Because EPA has never approved NR 436.03(2), DNR cannot grant exceptions under that provision. *In the Matter of Dunkirk Power LLC*, Order Objecting to Proposed Operating Permit No. II-2002-02 at 14 (Adm'r July 31, 2003) (state cannot grant a startup/shutdown/malfunction exemption on a state rule that has not been approved into the SIP); *In the Matter of the Huntley Generating Station*, Order Objecting to Operating Permit No. II-2002-01 at 15 (Adm'r July 31, 2003) (same).

In the past, there has been confusion about whether chapter NR 436, in its entirety, was incorporated into the SIP in 64 Fed. Reg. 28,745 (May 27, 1999). It was not. While EPA amended Wisconsin's SIP through that rulemaking, and mentioned NR 436, EPA did not adopt all of NR 436 into the SIP. Specifically, EPA's rulemaking adopts "[t]he following sections of the Wisconsin Administrative Code... Both rule packages, AM-27-94 and AM-9-95...." 64 Fed. Reg. at 28,747. EPA notes that rule package AM-9-95 "modifies Chapter NR, Sections... 436..." However, the fact that AM-9-95 modified parts of chapter NR 436 does not mean that AM-9-95 modified all of NR 436. Specifically, NR 436.03(2) was not modified by AM-9-95. In fact, AM-9-95 never mentions NR 436.03(2)- that section does not even appear in AM-9-95. Therefore, to the extent that DNR relies upon the EPA's rulemaking in 64 Fed. Reg. 28,745 to assert that NR 436.03(2) is in the SIP, DNR is mistaken.

In any event, DNR cannot use NR 436.03(2) to exempt emissions that would otherwise violate provisions of the Wisconsin SIP. DNR must remove the exemptions for startup and shutdown from the permit.

**VII. The Permit Must Incorporate, and The Public Must Be Allowed To Review And Comment On The Startup, Shutdown, and Malfunction Plans (Malfunction Prevention Plan) and The Fugitive Dust Control Plans.**

Throughout the permit, DNR relies on a "malfunction prevention and abatement plan" ("MPAP") to assure compliance with applicable standards. *See e.g.*, Draft Permit § I.A.1.b.(5). Additionally, the DNR relies upon Quality Control and Quality Assurance Plans ("QCQAP") to ensure compliance. *See e.g.*, Draft Permit § I.B.2.b.(3). This requirement is insufficient for a number of reasons. First, if DNR is relying on the

MPAP or QCQAP to ensure compliance, the Plan must be provided in the application. 40 C.F.R. § 70.5(a)(2) (a complete application must contain sufficient information to determine all applicable requirements), 70.5(c) (application cannot “omit information needed to determine the applicability of, or impose, any applicable requirement...”), 70.5(c)(3)(vi) (application must include any “work practice standards”). However, DNR merely requires that the Plan be “approved.” The Plan was not included with the public review documents, therefore it must be assumed that the Plan will be approved by DNR separate from, and later than the Title V permit. This violates Part 70, which requires the Plan to be included in the application.

Second, DNR must determine that the permit requirements (including the Malfunction Plan) assure compliance with all applicable requirements. 40 C.F.R. §§ 70.6(a)(1), 70.7(a)(iv). DNR cannot possibly rely on the Plan for its conclusion that the facility will comply with all requirements, when DNR has not yet reviewed the Plan. *See Environmental Defense Center, Inc. v. EPA*, 344 F.3d 832, 855-56 (9th Cir.2003) (“[P]rograms that are designed by regulated parties must, in every instance, be subject to meaningful review by an appropriate regulating entity to ensure that each such program [complies with the relevant statutory standard].”); *In re RockGen Energy Center*, 8 E.A.D. 536, 553-54 (EAB 1999) (remanding DNR permit requirement for a startup/shutdown plan that was not reviewed by DNR before permit issuance).

Third, because compliance with the Plan constitutes a Permit requirement, the Plan must be subject to public notice and comment. The public cannot comment on the sufficiency of the Permit, which incorporates the Plan, when the Plan is not part of the permit record. 40 C.F.R. § 70.7(h); *see e.g., Waterkeeper Alliance v. EPA*, 399 F.3d 486, 503-04 (2<sup>nd</sup> Cir. 2005) (invalidating EPA regulation that allowed Nutrient Management Plans to be submitted after public comment and after a NPDES permit was issued); *In re RockGen Energy Center*, 8 E.A.D. at 553-54 (remanding permit requirement for a startup/shutdown plan that was not subject to public notice and review).

Therefore, DNR must require all MPAP and QCQAP plans to be provided in the application, must review any such plan to determine that the plan will ensure compliance, and provide the plan(s) for public notice and comment before DNR can issue the Title V permit.

**VIII. All Monitoring Data and Recordkeeping Must Be Submitted to DNR; It is Not Sufficient That the Monitoring Results Be Kept At the Source.**

The permit should explicitly require the source to submit all records of monitoring results to the DNR. Throughout the permit, DNR only requires that monitoring results be maintained at the facility, but fails to require such results be provided to DNR. *See e.g., Draft Permit § I.H.1.a.(3)*. However, Wis. Admin. Code § NR 439.03(1)(b) expressly requires the source to “submit the results of monitoring required

by the permit... no less often than every 6 months..." (emphasis added). There is no limit on this requirement, but instead, it requires all monitoring results to be submitted. This requirement applies to any monitoring required by the permit, including parametric monitoring results (*i.e.*, records of ESP volts and amp readings). The applicable SIP regulations provide that DNR may require sufficient summary reporting, but do not allow DNR cannot waive the requirement to submit monitoring records altogether. Wis. Admin. Code §§ NR 407.09(1)(c)3.a., NR 439.03(1)(a)(b). Even when the DNR allows "summary" reporting, the summary must "include sufficient data for the department to determine whether the source is in compliance with the applicable requirements..." *Id.* In other words, all information necessary to determine compliance with every applicable requirement must be contained within the summary report. If DNR would have to ask for additional information to determine compliance, the reporting is insufficient.

The requirement to submit monitoring records is not a mere formality. Without the records submitted to DNR, and therefore publicly available, the public cannot monitor the source's compliance or bring enforcement actions. *See e.g.*, U.S. EPA, "Effective" Limits on Potential to Emit: Issues and Options, Jan. 31, 1996 at p. 11. Unless the actual results of continuous monitoring (*i.e.*, the volts and current of the ESP) are submitted, the public has no way to determine whether the source is in compliance.

Additionally, the public cannot determine if the source is complying with monitoring and recordkeeping if the source does not supply the results to the DNR. Because the records are not submitted to DNR, the public has no way to determine whether additional violations occurred, but were undetected by the permittee because the monitoring records are not submitted to DNR and publicly available. By way of example, experiences at the Madison Gas & Electric Blount Street station shows how monitoring and reporting violations were not detected and reported. A third-party audit of MG&E records discovered a number of monitoring and recordkeeping violations that the company and DNR had not discovered. MG&E Baseline Report 2003 pp. 28-43 (available at <http://www.mge.com/images/PDF/ECA/BaselineReport.pdf>).

Thank you again for the opportunity to provide these comments. If you have any questions, or if you would like any additional information that we can provide, please do not hesitate to contact us.

Very Truly Yours,

GARVEY MCNEIL & MCGILLIVRAY, S.C.



David C. Bender

Attorneys for Sierra Club, Clean  
Wisconsin and Wisconsin Public Interest  
Research Group

Public Comments on Draft Part 70 Permit  
Oak Creek Power Plant  
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June 14, 2006

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cc: Kevin Kessler, WDNR  
Jeffrey Hanson, WDNR  
Marcia Penner, WDNR  
Daniel Schramm, WDNR



**GARVEY McNEIL &  
McGILLIVRAY, S.C.**

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Peter E. McKeever

February 20, 2007

**VIA ELECTRONIC MAIL**

Wisconsin Department of Natural Resources  
Attn: Roger Fritz  
Email: roger.fritz@Wisconsin.gov

Re: Proposed Title V Air Pollution Operation Permit Renewal for Wisconsin  
Electric's Oak Creek Power Plant.

Dear Mr. Fritz,

In an email dated today, you asked about comments submitted last summer regarding the proposed Title V permit for the Oak Creek Power Plant. In your email, you note that NR 436 is referenced in 40 C.F.R. § 52.2570(c)(98)(i). You interpret that reference to incorporate chapter NR 436 into the Wisconsin State Implementation Plan ("SIP"). That is an incorrect interpretation of what 40 C.F.R. § 52.2570(c)(98) states.

40 C.F.R. § 52.2570(c)(98)(i) does not state that NR 436 is incorporated in its entirety. Rather, the provision states that two rulemaking packages-- AM-27-94 and AM-9-95 -- are incorporated by reference. I am attaching those rulemaking orders. As you will note from those orders, nowhere in either AM-27-94 or AM-9-95 is chapter NR 436 incorporated. As 40 C.F.R. §



52.2570(c)(98)(i) notes, rule package AM-9-95 modifies limited subsections of NR 436. It does not address, nor incorporate the startup/shutdown exemption in NR 436.03. In short, the mere fact that the Wisconsin SIP includes rulemaking order AM-9-95, which happens to modify limited sections of chapter NR 436, cannot be read as incorporating all sections of NR 436. NR 436.03(2) is not in the SIP and cannot be used to excuse periods of startup, shutdown, and malfunction from the requirements of sections NR 431.04 and 431.05.

Notably, in response to similar comments by Sierra Club regarding the Weston Generating Station in Marathon County, the Department agreed that NR 436 is not in the SIP and stated:

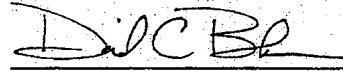
There is no language for the exclusion of startup and shutdown other than the specific language regarding an exception for up to 80% opacity for 6 minutes in any one hour when combustion equipment is being cleaned or a new fire started with the provision that combustion equipment may not be cleaned nor a fire started more than 3 times per day. Therefore, conditions I.A.2.a.(1) and I.B.2.a.(1) will be changed to read as follows:

*(1) Opacity may not exceed 40% or number 2 of the Ringlemann chart except when combustion equipment is being cleaned or a new fire started, emissions may exceed number 2 of the Ringlemann chart or 40% opacity but may not exceed number 4 of the Ringlemann chart or 80% opacity for 6 minutes in any one hour. Combustion equipment may not be cleaned nor a fire started more than 3 times per day. Emissions may exceed number 1 of the Ringlemann chart or 20% opacity for stated periods of time, as permitted by the department, for such purpose as an operating test, use of emergency or reserve equipment, or other good cause, provided no hazard or unsafe condition arises. [s. NR 431.04(1) and 431.05(1)&(2), Wis. Adm. Code]*

See Memorandum from Steve Dunn, WDNR, to Permit File for Permit# 737009020-P02 at p. 2 (Sept. 28, 2006). We ask that the Department similarly remove startup and shutdown exemptions for the Oak Creek plant based on NR 436. Please let me know if you have any further questions about this matter, or about our permit comments generally.

Sincerely,

GARVEY MCNEIL & MCGILLIVRAY, S.C.



David C. Bender

cc: Thomas Steidl, WDNR  
Jeffrey Hanson, WDNR  
Bruce Nilles, Sierra Club  
Katie Nekola, Clean Wisconsin

**David Bender**

**From:** David Bender  
**Sent:** Friday, May 18, 2007 3:11 PM  
**To:** 'Roger.Fritz@Wisconsin.gov'  
**Subject:** Oak Creek

Roger,

These comments are submitted on behalf of Sierra Club. As you know, Sierra Club commented on the first draft permit for the Oak Creek Power Plant Title V renewal. DNR released a second draft and asked again for public comment. We have not been able to access any DNR response to comments on the first draft. However, our review of the 2nd draft indicates that few of Sierra Club's comments were incorporated into the permit. Sierra Club reaffirms its prior comments, which are attached.

Additionally, Sierra Club offers the following additional comments:

- 1) In section I.A.1.b.(6), DNR should specify what it means by "when running the type of coal used in the compliance emission test." Additionally, it is not clear why the source should be able to avoid the requirement to use flue gas conditioning by changing coal type. The intent appears to be that if the source uses flue gas conditioning to pass the compliance test, it should be required to use flue gas conditioning during all operating periods, regardless of coal type. DNR should provide that if flue gas conditioning is required at all times if used during the preceding emission test.
- 2) In section I.A.2.a.(2), DNR inappropriately exempts startup and shutdown. It should be noted that DNR grant an exemption if it would cause or contribute to a violation of NAAQS or increment. There is nothing in the record for this permit showing that the emission rate (lb/hour) of particulate matter during periods of startup or shutdown does not violate NAAQS or increment. In fact, there is no determination of what the emission rate is during periods of startup and shutdown. Rather, DNR appears to have modeled with an assumed emission rate representative of normal operations. Without knowing the emission rate during startup/shutdown (non-typical operating periods), DNR cannot determine that it does not violate NAAQS and increment and cannot grant an exemption from the visible emission limit. Moreover, because NR 436.03(2) is not in the SIP, it cannot be relied upon to grant an exemption that is not in the SIP.
- 3) The permit does not appear to incorporate the limits required in NR 445.10, which become effective during the permit term.
- 4) The permit purports to grant exemptions not found in the SIP, and contrary to the SIP, based on a cooperative agreement. (see e.g., fn 24, page 29) This is only lawful if the cooperative agreement has been approved into the SIP. Please confirm that EPA has approved the cooperative agreement as a SIP modification.
- 5) Section I.H.2.a.(2) requires operating in conformance with good engineering practices and manufacturer's specifications. These references are not found in the permit. Please specify what good engineering practices require and specifically what the manufacturer's specification are that must be conformed to.
- 6) Please clarify how 20% opacity was determined to be representative of compliance with the applicable PM limits in the CAM plan. Sierra Club did not see this connection explicitly made in the permit materials available for public review.
- 7) The emission limits in NR 415 apply at all times, including startup and shutdown. The CAM plan apparently uses opacity as a surrogate for compliance with the PM limits in NR 415. (See section I.H.5.) However, the source only monitors opacity as a surrogate during normal operations-- and excluding startup and shutdown. How can the CAM plan ensure compliance with NR 415 during startup and shutdown when monitoring and recording is excluded during these periods? (see e.g., section I.H.5.a.(1) (d) and (e)).
- 8) Section I.H.5.a.(3)(a) should be modified to require the disclosure of the extent of excursion (i.e., the opacity readings) in addition to the other information.

David C. Bender  
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 634 W Main Street, Ste 101  
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 Tel. 608.256.1003

8/21/2007

DATE: April 13, 2007

FILE CODE: 4560  
FID #: 241007690

TO: Jeff Hanson

FROM: Roger Fritz

SUBJECT: Addendum to the Preliminary Determination for WE Energies, Oak Creek Station, Permit 241007690-P10.

The Department received comments from the applicant, WE Energies, and from David Bender representing Sierra Club, Clean Wisconsin and Wisconsin Public Interest Research Group.

One comment from both WE energies and David Bender regarded the Compliance Assurance Monitoring (CAM) Plan. The plan was not addressed in the draft permit and PD. WE Energies submitted a CAM plan 5/30/2002. Additional supporting material was submitted 9/5/2002. The plan indicates that the plan only applies to PM emissions from the boilers because SO<sub>2</sub>, NO<sub>x</sub> and opacity are already monitored by CEM, and the coal piles and combustion turbine do not require control devices. The CAM plan proposes to use opacity monitoring to identify situations when corrective action is needed and to identify excursions. The proposed permit includes the monitoring provisions from the CAM plan with clarification of the averaging periods, and requires corrective action to address malfunctions. The proposed permit would also require a quality improvement plan if there are excessive excursions, and requires reporting on excursions in the semiannual monitoring report.

WE Energies requested removal of numerous provisions in the permit that required updating and resubmittal of various types of plans. These provisions are removed from the proposed permit. They also requested that allowable sulfur dioxide test methods be expanded to allow use of methods 6A and 6C as provided under s. NR 439.06(2), Wis. Adm. Code. These test methods are allowed under the proposed permit.

WE Energies noted the stack height for S14 should be 553 feet. The PD listed the stack height as 557 feet and modeling used 141.1 meters (463 feet). Since modeling verified emissions meet ambient standards at a lower stack height, the proposed permit will revise I.B.1.b.(2)(a) to 553 feet.

David Bender at I. indicated the permit must be modified to include a compliance schedule for PSD permitting requirements based on EPA legal action, applications to PSC, and historic changes. Also, these physical changes to Units 5 and 6 would be modifications and therefore require lower PM emission limits under ch. NR 415, Wis. Adm. Code.

*Response:* The Department has not made a finding that the facility has violated PSD requirements nor has the facility reported to the Department that such violations have occurred. If such a finding is made in the future, then the Department will take appropriate actions to revise the operation permit as needed. Without a finding of violation, the Department will not be including a compliance plan or other requirements pertaining to PSD. [note that the draft consent decree between EPA and Wisconsin Electric includes the following: *WHEREAS, Wisconsin Electric has denied and continues to deny*



*the violations alleged in the Complaint, maintains that it has been and remains in compliance with the Act and is not liable for civil penalties or injunctive relief, and states that it is agreeing to the obligations imposed by this Consent Decree solely to avoid the costs and uncertainties of litigation, and to reduce its emissions;]*

David Bender at II. indicated the permit must be modified to remove the NSPS permit shield or DNR must conduct a thorough investigation to actually review historical physical and operational changes and any resulting emission increases, and determine if these actions were modifications subject to NSPS requirements.

*Response:* The NSPS permit shield was removed from the permit.

David Bender at III. indicated Preamble to the permit should be modified to clarify that “voluntary limits” are mandatory.

*Response:* The Department disagrees. The information in the Preamble is standard language in every permit issued by the Department and has never been known to cause non-compliance due to the confusion suggested. In this permit a footnote is used to identify more stringent requirements that were requested by the applicant. The applicable authority for each provision is included with each provision.

David Bender at IV. indicated the permit must be modified to comply with the credible evidence rule.

*Response:* The credible evidence rule gives EPA and citizens the ability to sue based on evidence they have, independent of the language in the permit. Mr. Bender believes language in the permit may unnecessarily restrict the use of credible evidence. The Department disagrees. The phrases Mr. Bender wants to change are standard language used in every permit issued by the Department, and have never been shown to restrict the use of credible evidence.

David Bender at V. indicated the permit must be modified to ensure continuous compliance with the emission limits. He wants the Preamble to indicate that a violation of compliance demonstration is a violation of an emissions limit. He wants the permit to include the Compliance Assurance Monitoring (CAM) plan. He wants changes to the CAM plan.

*Response:* The Department disagrees that a violation of a compliance demonstration requirement is automatically a violation of an emission limit. The Department agrees the permit must include the monitoring requirements of the CAM plan and will include that portion of the plan in the permit.

The Department disagrees with the requested changes to the CAM plan. Considering the operational realities of a power plant, using a longer averaging time (3 hours) to define an excursion rather than a lower opacity threshold is reasonable. Because condensable emissions at a power plant typically represent a small fraction of total PM emissions, developing the CAM plan based on tests using Method 17 (filterable PM) is reasonable. As explained with comment VI, the exclusion for startup and shutdown is appropriate.

Including the CAM provisions is a significant change to the draft permit and requires re-issuing the public notice and associated public review and comment period.

David Bender at VI. indicated the permit must be modified to remove the exemption from emission limits applying during periods of startup, shutdown or malfunction because the exemption under s. NR 436.03(2)(b), Wis. Adm. Code, is not included in the State Implementation Plan (SIP).

*Response:* The Department disagrees. The provision regarding allowing emissions in excess of the emission limit due to normal startup or shutdown carried out in accord with the approved startup and shutdown plan was approved in the state SIP as s. NR 154.09, Wis. Adm. Code, and later included as the renumbered s. NR 436.03(2)(b), Wis. Adm. Code. In a proposed SIP revision rule, EPA specifically cites the exemption from emissions limitations due to startup or shutdown (page 41816, FR 8/18/1981) before finalizing the revision to s. NR 154.09, Wis. Adm. Code (FR 11/27/1981).

David Bender at VII. indicated the permit must be modified to incorporate various plans required under the permit, and to provide public access to these plans (SSM and dust control) as required under federal law.

*Response:* The Department disagrees. These procedures for handling such plans in permits are typical for any permit issued by the Department. Permits are routinely submitted to EPA for review and the Department's Title V permit program has been audited by EPA. EPA has not identified this issue as a problem.

David Bender at VIII. indicated the permit must be modified to require submittal of all monitoring data and recordkeeping to DNR, instead of being kept at the facility.

*Response:* The Department disagrees that the permit needs modification. The requirement to submit monitoring results under s. NR 439.03(1)(b), Wis. Adm. Code, is already in the permit at I.H.1.a.(1) and I.H.1.b.(1). The comment reads more like Mr. Bender disagrees with what the Department has accepted as a summary of data at another facility, and disagrees with the option provided under s. NR 439.03(1)(b), Wis. Adm. Code, to allow submission of a summary in lieu of all monitoring results.

DNR field staff noted some additional items. The nitrogen oxide emission limits of s. NR 428.05, Wis. Adm. Code, were not cited for Boilers 5 & 6 in the draft renewal permit.

*Response:* The proposed permit includes the NO<sub>x</sub> requirements, and omits the testing required under I.B.3.b.(1) since the facility has already completed this emission test and has demonstrated compliance. Including the NO<sub>x</sub> emission limits is a significant change to the draft permit and requires re-issuing the public notice and associated public review and comment period.

Also, construction permit 03-RV-166-R1 for the Elm Road facility addresses changes to the fly ash handling facility which is P31 in the draft operation permit renewal for Oak Creek.

*Response:* If the construction under 03-RV-166-R1 is accomplished, then the Oak Creek Operation Permit will need to be revised to reflect the changes.

cc: Thomas Zelinski — Southeast Region Headquarters

DATE: June 27, 2007  
TO: Jeff Hanson  
FROM: Roger Fritz  
SUBJECT: Second Addendum to the Preliminary Determination for WE Energies, Oak Creek Station, Permit 241007690-P10.

FILE CODE: 4560  
FID #: 241007690

The Department received comments during the second public comment period from the applicant, WE Energies, and from David Bender representing Sierra Club.

David Bender reaffirmed Sierra Club's previous comments on the first draft permit, and noted they did not have access to the DNR response to comments on the first draft. Refer to the First Addendum memo for responses to the previous comments.

The following comments are listed in the order they apply to provisions of the draft permit. In addition, typographical errors that were noted have been corrected in the Proposed Permit.

We Energies noted that they expect the reclaim storage pile (S16), the outdoor storage pile at coal dock (S17) and in-plant coal transfer (S18) to be retired in 2007, and would be replaced under permit 03-RV-166-R1 once those new units are operational.

*Response:* Footnotes were added to the **Stack and Process Index** section of the Proposed Permit to highlight that the applicable provisions may be subject to change in the near future.

We Energies requested that the Sodium Hypochlorite Storage Tank (5,000) and Sodium Bisulfate Tank (5,000) be removed from the list of **Insignificant Emission Units** because they are out of service (part of the old zebra mussel treatment). In addition, the Sodium Hydroxide and Sulfuric Acid (not listed) bulk tanks (6,000 each) will be going out of service by the end of 2007 with the replacement of the de-mineralizer system. The new de-mineralizer will use the following chemicals: Sulfuric Acid (400 gallon tote), Sodium Hydroxide (400 gallon tote), Hypersperse MDC 220 (200 gallon tote) and Sodium Metabisulfite (400 gallon tote).

*Response:* The tanks related to zebra mussel control were removed for the Proposed Permit. The changes to the de-mineralizer system are already reflected under Demineralization and Oxygen Scavenging of Water for Boilers.

At I.A.1.b.(6), David Bender indicated DNR should clarify the meaning of "when running the type of coal used in the compliance emission test", and suggested the permit should require that flue gas conditioning is required at all times if used during the preceding emission test.

*Response:* Section I.A.1.b.(6) is clear enough and remains unchanged in the Proposed Permit.



At I.A.2.a.(2), David Bender indicated DNR inappropriately exempts startup and shutdown.

*Response:* As noted in the first response to comments, the provision regarding allowing emissions in excess of the emission limit due to normal startup or shutdown carried out in accord with the approved startup and shutdown plan was approved in the state SIP as s. NR 154.09, Wis. Adm. Code, and later included as the renumbered s. NR 436.03(2)(b), Wis. Adm. Code. In a proposed SIP revision rule, EPA specifically cites the exemption from emissions limitations due to startup or shutdown (page 41816, FR 8/18/1981) before finalizing the revision to s. NR 154.09, Wis. Adm. Code (FR 11/27/1981).

At I.A.3.b.(5), I.A.3.b.(9), I.B.2.b.(6), I.B.2.b.(10) and elsewhere, We Energies requested the provision be changed to remove the new requirement to update the plan.

*Response:* This is similar to comments from We Energies on the first draft permit. Similarly, we hope this time all of these provisions are removed from the Proposed Permit.

At I.A.4. and I.B.3, We Energies proposed that the NO<sub>x</sub> permit condition language be consistent throughout the permit for Units 5 and 6 (S13) and Units 7 and 8 (S14) boilers with the exception that Units 7 and 8 shall be controlled by the use of low NO<sub>x</sub> burners.

*Response:* The Proposed Permit reflects the suggested changes.

At I.A.5.a.(1), I.A.5.b.(1) and (2), and I.A.5.c.(2); and similarly at I.B.6.a.(1), I.B.6.b.(1) and (2), and I.B.6.c.(2), We Energies requested consideration of general emission limitations, rather than the current specific concentration limitations, related to the burning of boiler chemical cleaning waste liquid.

*Response:* Specific limitations are preferred and remain in the Proposed Permit.

At I.B.1.c.(6), We Energies requested that the word "initials" be changed to "name" as a similar provision is worded in condition I.A.1.c.(5).

*Response:* The Proposed Permit reflects the suggested change.

At I.B.4.c.(3), We Energies requested that the reporting be semi-annual (rather than quarterly) and within 45 days (rather than 30 days) of the end of the reporting period which would be consistent with the rest of the permit.

*Response:* The cooperative agreement, which is the basis of the semi-annual (rather than quarterly) and 45 days (rather than 30 days) expires by the end of September 2007. The Proposed Permit retains the Administrative Code requirements for quarterly reporting within 30 days, with footnotes indicating deviations are allowed when a cooperative agreement is in effect and the deviations are consistent with the SIP. However, the cooperative agreement did not include carbon monoxide emission reports with the other deviations from the reporting requirements. Therefore, the requirements of s. NR 439.09(10), Wis. Adm. Code, apply to this specific provision at all times.

At I.E.1.c.(1), We Energies requested that the reference test method be changed in order to be consistent with the citation.

*Response:* The Proposed Permit uses the appropriate citation and retains the requirement to use test Method 22.

At I.F.1.b.(2), WE Energies noted that wet fly ash loading to open trucks is an alternative loading method. The following description is for the wet fly ash unloader for Unit 7. The wet fly ash unloader systems for Units 5, 6, and 8 are not used with PRB ash. The wet fly ash unloader is used to remove fly ash from a storage bin, condition it with proper quantity of water to minimize dusting, and to discharge the conditioned ash to the plant's disposal vehicles. The unloader is started and stopped via push-button by the operator of the unloader's local control station located at the discharge end of the unloader. The ash enters the mixer first. The water flow is started and stopped by an automatic control system which is designed to extend the water cycle beyond the fly ash charging cycle in order to minimize "dusting". Ash flow into the mixer is controlled to allow it to blend with water. A metering device maintains a 10-12% water content by weight of the mixing batch.

*Response:* The proposed permit allows loading of wet fly ash to open trucks, using language similar to the provisions for loading bottom ash. A footnote explains only unit 7 currently uses wet loading to open trucks.

At footnote 24 to I.H.1.c.(1)(b), David Bender requested confirmation that the granting of deviations from report submittal requirements in accordance with the cooperative agreement have been approved as a SIP modification. He contends that deviations from the SIP, based on the cooperative agreement, are only lawful if the cooperative agreement has been approved into the SIP.

*Response:* The cooperative agreement expires by the end of September 2007. The Proposed Permit retains the Administrative Code based reporting requirements, with footnotes indicating deviations are allowed when a cooperative agreement is in effect and the deviations are consistent with the SIP.

At I.H.2.a.(2), David Bender requested that the permit specify what good engineering practices require and specifically what the manufacturer's specification are that must be conformed to.

*Response:* The permit simply includes the Administrative Code requirement. Additional related specifics are provided in I.H.2.b. and c. and the materials those provisions require.

At I.H.5.a.(1)(c), WE Energies clarified that one-hour block averages are to mean clock hours (i.e. the block starts at the top of the hour).

*Response:* The Proposed Permit includes a footnote expressing this clarification.

At I.H.5.a.(1)(d) & (e), David Bender asked how can the CAM plan can ensure compliance with NR 415 emission limits during startup and shutdown when monitoring and recording is excluded during these periods?

*Response:* As described in the Preamble to the CAM rule, monitoring is required during periods such as startup and shutdown to aid in the evaluation of emissions during periods that may only be subject to the general duty clause. The permit does require monitoring and recording during startup and shutdown.

At I.H.5.a.(1)(e), David Bender requested clarification of how 20% opacity was determined to be representative of compliance with the applicable PM limits in the CAM plan.

*Response:* WE Energies submitted a CAM plan 5/30/2002. Additional supporting material was submitted 9/5/2002. These materials are available in the public file for the facility. The plan shows that for the range of operating scenarios including operating only one or both boilers feeding a stack and one or both control devices malfunctioning, opacity provides an indicator of compliance with the emission limits. The facility developed relationships for opacity to mass emissions for each unit including higher emission rates when the control device was operated to simulate a malfunction. Adding the emission rate in lb/mmBtu at 20% duct opacity for units 5 & 6 ( $0.06 + 0.055 = 0.11$  lb/mmBtu) which emit to a common stack, the applicant was able to demonstrate 20% stack opacity would demonstrate compliance with the 0.15 lb/mmBtu emission limit. Similarly, for units 7 & 8 ( $0.044 + 0.052 = 0.09$  lb/mmBtu) which would demonstrate compliance with the 0.10 lb/mmBtu emission limit.

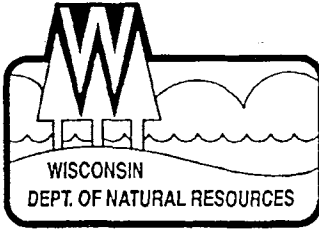
At I.H.5.a.(3)(a), David Bender requested a revision to require the disclosure of the extent of excursion (i.e., the opacity readings) in addition to the other information.

*Response:* The extent of excursion is available in the monitoring records and is not explicitly required under 40 CFR 64.9. The Proposed Permit remains unchanged from the draft.

David Bender noted the requirements of s. NR 445.10, Wis. Adm. Code, regarding the handling and storage of coal, were not included in the draft permit.

*Response:* I.H.6 was added to the proposed permit addressing the s. NR 445.10, Wis. Adm. Code, requirements. The provision was added to I.H. - Conditions Applicable to the Entire Facility, because the coal pile and some of the coal handling sources are expected to be replaced in 2007.

cc: Thomas Zelinski – Southeast Region Headquarters



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor  
Darrell Bazzell, Secretary

101 S. Webster St.  
Box 7921  
Madison, Wisconsin 53707-7921  
Telephone 608-266-2621  
FAX 608-267-3579  
TTY 608-267-6897

July 16, 2002

IN REPLY REFER TO: 4560  
FID: 241007690

Mr. Robert Hall, Asset Manager  
Wisconsin Electric Power Oak Creek  
4801 E. Elm Road  
Oak Creek, WI 53154

SUBJECT: Renewal Application for Existing Source Air Permit.

Dear Mr. Hall:

The Department of Natural Resources received your renewal application for your Part 70 source air pollution control operation permit on May 31, 2002 for your existing source at 4801 E. Elm Road, Oak Creek, Milwaukee County, Wisconsin.

In the event the Department does not issue your renewal application prior to expiration of your existing operation permit, your air pollution source may then continue to operate in compliance under the "application shield" clause in s. 285.62(8), Stats. The "application shield" clause states that if a person submits a complete application and submits any additional information requested within the time set by the Department, the existing source may not be required to discontinue operation and the person may not be prosecuted for lack of an operation permit. However, per s. NR 407.06(2), Wis. Adm. Code, the Department is not precluded from requiring submittal of additional information to process the application.

When the process of reviewing the air permit for your source has begun, a permit review engineer will notify you. If you have any questions about the content of this letter or about any other operation-permit related items, please feel free to call me at (608)267-0562.

Sincerely,

Keith W. Pierce  
Operation Permit Team Leader  
Bureau of Air Management

cc: Dan Schramm -SER/Milwaukee - (w/application)

- Exhibit D

we energies



231 W. Michigan St.  
Milwaukee, WI 53290-0001  
www.we-energies.com

June 7, 2002

Mr. Keith Pierce  
Wisconsin Department of Natural Resources  
Bureau of Air Management AM/7  
Operating Permit Team Leader  
P.O. Box 7921  
Madison, WI 53707-7921

Dear Keith:

**SUBJECT: Operating Permit Renewal Application Revision for Oak Creek Power Plant  
FID# 241007690**

Enclosed are two copies of a minor permit revision Wisconsin Electric (WE) is requesting for S15-P30 (Unit 9) the 20 MW simple cycle turbine. This submittal is an addendum to our initial Title v renewal application submitted to the Department on May 30, 2002.

The changes WE is requesting are as listed below:

- 1) Lowering the allowable particulate matter emission rate from 0.15#/Mbtu to 0.05#/Mbtu, and
- 2) Natural gas will be the only fuel used as fuel in the unit.

I have enclosed the completed minor permit revision form 4530-136 and the appropriate 4530-118 through 4530-128 forms.

If you have any questions, please contact me at (414) 221-2219 or [paul.white@we-energies.com](mailto:paul.white@we-energies.com).

Sincerely,

A handwritten signature in black ink that reads 'Paul H. White'.

Paul H. White  
Senior Air Quality Engineer  
Wisconsin Energy Corporation

Attachments

cc: Mr. Steve Jorgenson  
Environmental Engineer - Air Management Southeast Region  
Wisconsin Department of Natural Resources  
2300 N. Dr. Martin Luther King Drive, Box 12436  
Milwaukee, WI 53212-0436

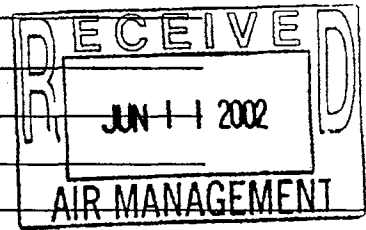
PERMIT REVISION OR RENEWAL REQUEST  
Department of Natural Resources

FOR PROPOSED CONDITION CHANGES  
AIR POLLUTION CONTROL PERMIT APPLICATION  
Form 4530-136 Rev. 12/99 Information attached? \_\_\_ (y/n)

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name and Name Wisconsin Electric Power Oak Creek  
mailing address Street or Route 4801 E. Elm Road  
City, State, Zip Code Oak Creek WI. 53154

2. New Parent corporation Name \_\_\_\_\_  
or Facility name Street or Route \_\_\_\_\_  
(if name change being City, State, Zip Code \_\_\_\_\_  
requested) Country (if not U.S.) \_\_\_\_\_



3. Type of Permit Revision:  Administrative  Minor  Significant

4. Facility identification number: 241007690 5. Permit #(s) to be revised: 241007690-P02

6. Describe the proposed revision below (attach additional sheets if necessary). For a Renewal Request for Proposed Condition Changes, list the affected permit conditions here and attach additional sheets with the proposed changes identified.

See Letter and attachments

|  |                     |
|--|---------------------|
| 7. SIGNATURE OF RESPONSIBLE OFFICIAL   |                     |
| A. STATEMENT OF COMPLETENESS<br>I have reviewed this application in its entirety and, based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this application are true, accurate and complete.  |                     |
| B. CERTIFICATION OF FACILITY COMPLIANCE STATUS (check one box only)<br>THIS IS ONLY A REQUIREMENT FOR PART 70 SOURCES REQUESTING SIGNIFICANT REVISIONS OR RENEWAL CHANGES.<br><input checked="" type="checkbox"/> I certify that the facility described in this air pollution permit application is fully in compliance with all applicable requirements.<br><input type="checkbox"/> I certify that the facility described in this air pollution permit application is fully in compliance with all applicable requirements, except for the following emissions unit(s):<br>_____<br>(list all non-complying units) |                     |
| Printed or Typed Name Robert Hall  | Title Asset Manager |
| Signature  | Date Signed 6/5/02  |

All applicants except non-Part 70 sources are required to certify compliance with all applicable air pollution permit requirements by including a statement within the permit application of the methods used for determining compliance (please see sec. NR 407.05(4)(i), Wis. Adm. Code.) This statement must include a description of the monitoring, recordkeeping, and reporting requirements and test methods. In addition, the application must include a schedule for compliance certification submittals during the permit term. These submittals must be no less frequent than annually, and may need to be more frequent if specified by the underlying applicable requirement or by the Department.

SEE INSTRUCTIONS ON REVERSE SIDE

|   |  |
|---|--|
| 1. Facility name Wisconsin Electric Power Oak Creek | 2. Facility identification number: : 241007690 |
| 3. Stack identification number S15                  | 4. Unit identification number: P30             |

5. This Unit will use the following method(s) for determining compliance with the requirements of the permit (check all that apply and attach the appropriate form(s) to this form).

- Continuous Emission Monitoring (CEM) - Form 4530-119  
Pollutant(s):
- Periodic Emission Monitoring Using Portable Monitors - Form 4530-120  
Pollutant(s):
- Monitoring Control System Parameters or Operating Parameters of a Process - Form 4530-121  
Pollutant(s):
- Monitoring Maintenance Procedures - Form 4530-122  
Pollutant(s):
- Stack Testing - Form 4530-123  
Pollutant(s):
- Fuel Sampling and Analysis (FSA) - Form 4530-124  
Pollutant(s):
- Recordkeeping - Form 4530-125  
Pollutant: **PM- Use of natural gas only**
- Other (please describe) - Form 4530-135  
Pollutant(s):

6. Compliance certification reports will be submitted to the Department according to the following schedule:

Start date: July 1, 2002  
and every 12 months thereafter.

Compliance monitoring reports will be submitted to the Department according to the following schedule:

Start date: July 1, 2002  
and every 6 months thereafter.

COMPLIANCE DEMONSTRATION BY RECORDKEEPING  
AIR POLLUTION CONTROL PERMIT APPLICATION  
Form 4530-125 11-93

Information attached? \_\_ (y/n)

Recordkeeping may be acceptable as a compliance demonstration method provided that a correlation between the parameter value recorded and the emission rate of a particular pollutant is established in the form of a curve or chart of emission rate versus parameter values. This correlation may constitute the certification of the system. It should be attached for Department approval. If it is not attached, please submit it within 60 days of the startup of the system.

SEE INSTRUCTIONS ON REVERSE SIDE

|   |   |
|---|---|
| 1. Facility name: Wisconsin Electric Power Oak Creek  | 2. Facility identification number: 241007690  |
| 3. Stack identification number: S15   | 4. Unit identification number: P30  |
| 5. Pollutant(s) being monitored: SO <sub>2</sub> NO <sub>x</sub>  | 6. Material or parameter being monitored and recorded: Fuel usage- Natural gas only |
| 7. Method of monitoring and recording:  |   |
| 8. List any EPA methods used:   |   |
| 9. Is this an existing method of demonstrating compliance?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 10. Installation date: July 1, 2002   |
| 11. Backup system: None   |   |
| 12. Compliance shall be demonstrated: <input checked="" type="checkbox"/> Daily <input type="checkbox"/> Weekly <input type="checkbox"/> Monthly <input type="checkbox"/> Batch   |   |
| 13. Indicate by checking:<br><br>The monitoring system shall be subject to appropriate performance specifications, calibration requirements, and quality assurance procedures. <input type="checkbox"/> A quality assurance/quality control plan for the recordkeeping system is attached for Department approval. <input type="checkbox"/> If the plan is not attached, please submit it within 60 days of the startup of the recordkeeping program. <input type="checkbox"/> The plan was submitted to the Department on _____. |   |

\*\*\*\*\* The compliance records shall be available for Department inspection. The format for the compliance certification report and the excess emission report shall be approved by the Department. A proposed format for the compliance certification report and excess emission report shall be submitted at the same time as the application. \*\*\*\*\*

\*\*\*\*\* The source shall record any malfunction that causes or may cause an emission limit to be exceeded. Malfunctions shall be reported to the Department the next business day. Hazardous air spills shall be reported to the Department immediately. \*\*\*\*\*



SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name: Wisconsin Electric Power Oak Creek

2. Facility identification number: 241007690

3. Stack identification number: S15

4. Unit identification number: P30

5. Complete the following emissions summary for the following pollutants. Attach sample calculations and emission factor references. Attached? No

| Air pollutant        | Actual |     | Maximum theoretical emissions |     |       | Potential to emit |     | Maximum allowable |   |       |
|----------------------|--------|-----|-------------------------------|-----|-------|-------------------|-----|-------------------|---|-------|
|                      | U      | TPY | U                             | TPY | U     | TPY               | U   | TPY               |   |       |
| Particulates         |        |     | 0.05                          | 2   | 88.9  | 48.4              | TPY | 0.05              | 2 | 48.4  |
| Sulfur dioxide       |        |     |                               |     | 1.1   | 0.58              | TPY |                   |   | 1.1   |
| Organic compounds    |        |     |                               |     | 3.7   | 2.03              | TPY |                   |   | 3.7   |
| Carbon monoxide      |        |     |                               |     | 145.8 | 79.3              | TPY |                   |   | 145.8 |
| Lead                 |        |     |                               |     |       |                   | TPY |                   |   |       |
| Nitrogen oxides      |        |     |                               |     | 569.1 | 309.5             | TPY |                   |   | 569.1 |
| Total reduced sulfur |        |     |                               |     |       |                   | TPY |                   |   |       |
| Mercury              |        |     |                               |     |       |                   | TPY |                   |   |       |
| Asbestos             |        |     |                               |     |       |                   | TPY |                   |   |       |
| Beryllium            |        |     |                               |     |       |                   | TPY |                   |   |       |
| Vinyl chloride       |        |     |                               |     |       |                   | TPY |                   |   |       |
|                      |        |     |                               |     |       |                   | TPY |                   |   |       |
|                      |        |     |                               |     |       |                   | TPY |                   |   |       |
|                      |        |     |                               |     |       |                   | TPY |                   |   |       |
|                      |        |     |                               |     |       |                   | TPY |                   |   |       |
|                      |        |     |                               |     |       |                   | TPY |                   |   |       |

Units (U) should be entered as follows:

- 1 = lb/hr
- 2 = lb/mmBTU
- 3 = grains/dscf
- 4 = lb/ gallon
- 5 = ppmv
- 6 = other (specify)
- 7 = other (specify)
- 8 = other (specify)

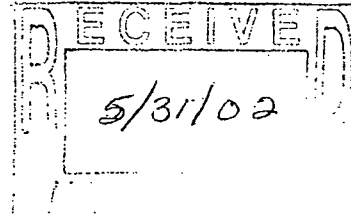
we energies



231 W. Michigan St.  
Milwaukee, WI 53290-0001  
www.we-energies.com

May 30, 2002

Mr. Keith Pierce  
Wisconsin Department of Natural Resources  
Bureau of Air Management AM/7  
Operating Permit Team Leader  
P.O. Box 7921  
Madison, WI 53707-7921



Dear Keith:

**SUBJECT: Operating Permit Renewal Application for Oak Creek Power Plant  
FID# 241007690**

The complete operation permit renewal application, required by § NR 407.05, Wisconsin Administrative Code, for Oak Creek Power Plant (OCPP) (Permit #241007690-P02), is enclosed. In addition, the facility was issued a construction permit #01-RV-103 on October 9, 2001 to construct and operate Low NO<sub>x</sub> Boilers (LNB) on units B27 and B28. On December 14, 2001 Wisconsin Electric Power company (WE) submitted a construction permit to build two Super Critical Pulverized Coal (SCPC) units and one Integrated Gasification Combined Cycle (IGCC) unit on the site.

There are two paper copies of the forms, and other supplemental materials referenced in the forms. WE is in the process of installing Low NO<sub>x</sub> boilers (LNB) on unit B28. B27 was converted in January 2002. The conversion of these units is covered by Construction permit # 01-RV-103 issued October 9, 2001. The required operation permit application forms were submitted with the initial application. In addition, WE has submitted a construction application on December 14, 2001 to construct and operate two Super Critical Pulverized Coal (SCPC) units and one Integrated Gasification Combined Cycle (IGCC) unit. Action is pending on this submittal.

OCPP is subject to the compliance assurance monitoring (CAM) rule promulgated by US EPA in the 40 CFR Part 84 on October 22, 1997. Under § 64.5(a), for existing major emission units that submitted complete Title V operating permit applications by April 20, 1998, i.e. OCPP, a CAM plan submittal must be part of the source's application for the renewal of the operating permit.

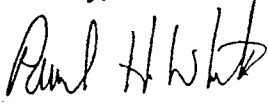
OCPP is not subject to CAM for SO<sub>2</sub>, NO<sub>x</sub> and opacity because the compliance demonstration method for these pollutants is continuous emission monitoring. The plant is not subject to CAM for particulate matter (PM) from the combustion turbine (P30) and from the outdoor coal storage pile because there are no particulate matter emission control devices required. However, the plant is subject to CAM for particulate matter from Boilers B25, B26, B27 and B28 because electrostatic precipitators (ESP) are the control devices used on each boiler to reduce the particulate matter emissions.

The PM CAM plans follows the current permit requirements and generally follow the EPA's presumptively acceptable CAM plans submittals for ESPs in its technical guidance. The plan also follows the recommended outline for the CAM plans shown in the EPA technical guidance for ESPs.

I have also attached a section (Permit Language Changes and Updates) of recommended language updates or changes. I have attached the appropriate 4530-136 form.

If you have any questions, please contact me at (414) 221-2219 or paul.white@we-energies.com.

Sincerely,

A handwritten signature in black ink that reads "Paul H. White". The signature is written in a cursive style with a large initial "P" and "H".

Paul H. White  
Senior Air Quality Engineer  
Wisconsin Energy Corporation

Attachments

cc: Mr. Steve Jorgenson  
Environmental Engineer - Air Management Southeast Region  
Wisconsin Department of Natural Resources  
2300 N. Dr. Martin Luther King Drive, Box 12436  
Milwaukee, WI 53212-0436

PERMIT REVISION OR RENEWAL REQUEST  
FOR PROPOSED CONDITION CHANGES  
AIR POLLUTION CONTROL PERMIT APPLICATION  
Form 4530-136 Rev. 12/99

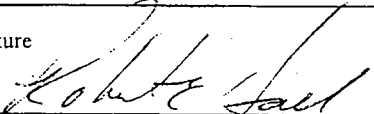
Information attached? \_\_\_ (y/n)

SEE INSTRUCTIONS ON REVERSE SIDE

|  |   |   |                                      |
|--|---|---|--------------------------------------|
| 1. Facility name and mailing address   | Name  | Wisconsin Electric Power Oak Creek        |                                      |
|  | Street or Route                             | 4801 E. Elm Road                          |                                      |
|  | City, State, Zip Code                       | Oak Creek WI. 53154                       |                                      |
| 2. <u>New</u> Parent corporation or Facility name (if name change being requested) | Name  | _____                                     |                                      |
|  | Street or Route                             | _____                                     |                                      |
|  | City, State, Zip Code                       | _____                                     |                                      |
|  | Country (if not U.S.)                       | _____                                     |                                      |
| 3. Type of Permit Revision:  | <input type="checkbox"/> Administrative     | <input checked="" type="checkbox"/> Minor | <input type="checkbox"/> Significant |
| 4. Facility identification number: 241007690                                       | 5. Permit #(s) to be revised: 241007690-P02 |   |                                      |

6. Describe the proposed revision below (attach additional sheets if necessary). For a Renewal Request for Proposed Condition Changes, list the affected permit conditions here and attach additional sheets with the proposed changes identified.

See Attachment

|   |                     |
|---|---------------------|
| 7. SIGNATURE OF RESPONSIBLE OFFICIAL  |                     |
| A. STATEMENT OF COMPLETENESS<br>I have reviewed this application in its entirety and, based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this application are true, accurate and complete. |                     |
| B. CERTIFICATION OF FACILITY COMPLIANCE STATUS (check one box only)<br>THIS IS ONLY A REQUIREMENT FOR PART 70 SOURCES REQUESTING SIGNIFICANT REVISIONS OR RENEWAL CHANGES.  |                     |
| <input checked="" type="checkbox"/> I certify that the facility described in this air pollution permit application is fully in compliance with all applicable requirements.   |                     |
| <input type="checkbox"/> I certify that the facility described in this air pollution permit application is fully in compliance with all applicable requirements, except for the following emissions unit(s):<br>_____   |                     |
| (list all non-complying units)  |                     |
| Printed or Typed Name Robert Hall   | Title Asset Manager |
| Signature    | Date Signed 5/29/02 |

## **Permit Language Changes and Updates**

### **Changing Calibration Frequency of Differential Pressure Alarms and Gauges**

Part II, General Permit Conditions, II.C.13 addresses the annual calibration frequency for all instruments used for measuring source or air pollution control equipment performance. These instruments shall be calibrated yearly or at a frequency based on good engineering practice as established by operational history, whichever is more frequent. WE has many years of operating and maintaining these types of devices. Our operating experience would typically check and adjust the calibration every other or every third year.

Taking the following language from the cooperative agreement issued to Pleasant Prairie Power Plant, WE requests the following change. "The company shall calibrate all instruments used for measuring source or air pollution control equipment operational variables during major maintenance outages or following good engineering practices, but not less frequently than once every twenty-four (24) months. The company shall keep records documenting any calibration activities. Requirements for calibrating continuous emission monitors and continuous opacity monitors are not superseded by this section".

Major outages now occur at frequencies greater than 12 months making it difficult to check and adjust instruments yearly.

### **Eliminating the Requirement to Record Precipitator Voltage and Current Readings**

In section I.A.1.b(4) and I.B.1.b(4) , the permit requires monitoring and recording of five operating parameters for the electrostatic precipitators (ESP). The five parameters are:

1. Primary voltage, in volts.
2. Secondary voltage, in volts.
3. Primary current, in amps.
4. Secondary current, in amps.
5. Spark rate, in sparks per minute.

The permit further requires the plant to record these parameters once each operating shift [I.A.1.c(4) and I.B.1.c(4)]. The purpose of monitoring and recording these parameters is to ensure that the ESP is being operated correctly to prevent excessive or unusual particulate matter emissions. With the implementation of the CAM plan for the ESPs, WE feels it's unnecessary to require the tracking and recording of these operating parameters. These precipitators have a wide margin of performance. These units operate at levels significantly lower than the emission limit of 0.15 lbs./mmBtu for B25 and B26 and 0.10 lbs./mmBtu for B27 and B28., as demonstrated in the biennial PM tests. It's because of this outstanding performance that WE believes opacity is a good indicator of precipitator performance.

For these reasons, WE requests that the requirements in sections I.A.1.b(4) and I.B.1.c(4) be eliminated from the permit.

**COMPLIANCE ASSURANCE MONITORING PLAN  
ELECTROSTATIC PRECIPITATOR (ESP) FOR PM CONTROL  
OAK CREEK POWER PLANT**

**I. Background**

A. Emission Units

- 1. Description: Coal-fired boilers
- 2. Identification: B25, B26, B27, B28
- 3. APCD ID: C25, C26, C27, C28
- 4. Permit No: 230006260-P02 and 01-RV-103
- 5. Facility: Oak Creek Power Plant

B. Applicable Regulation, Emission Limit and Monitoring Requirements

- 1. Emission Limits
  - a) PM for B25, B26 0.15 lbs./mmBtu
  - b) PM for B27, B28 0.10 lbs./mmBtu
- 2. Current monitoring requirements

Monitor control system parameters, specifically primary voltage in volts, secondary voltage in volts, primary current in amps, secondary current in amps, and sparking rate, in sparks per minute. [Note: Continuous opacity monitors (COM) are used to assure compliance with the opacity limits. Continuous Emission Monitors (CEM) systems are used to assure compliance with NO<sub>x</sub> and SO<sub>2</sub> limits, but that monitoring is not addressed here].

C. Emission Control Technology:

Electrostatic Precipitator (ESP)

**II. Monitoring Approach**

WE believes that opacity monitoring can be used to demonstrate continuous compliance with PM. WE intends to establish a correlation between opacity reading (%) and particulate matter emissions. The best way to establish this correlation is through simultaneous emission testing and parameter measurement.

Monitoring Approach Elements

|  |   |
|--|---|
| Indicator  | Stack opacity data  |
| Measurement Approach                               | Using a certified stack opacity monitor (PS-1 certified)  |
| Indicator Range                                    | An excursion is defined when opacity average is a certain percent opacity for three block hours. Excursions trigger an investigation, corrective action and reporting requirements. The excursion percent will be established during the testing. |
| Performance Criteria<br>A. Data Representativeness | Opacity and PM correlation testing will be completed by March 1, 2003. Results will be submitted to the WIDNR by April 15, 2003.  |
| B. Verification of Operating Status                | The opacity monitor shall be operating whenever either boiler is in service.  |
| C. QA/QC Practices and Criteria                    | The data acquisition and handling system (DAHS) automatically checks the calibration of the monitor at the zero and span levels each day. Once a quarter, a   |

|                           |   |
|---------------------------|---|
|                           | three-point audit check is performed.   |
| D. Monitoring Frequency   | Continuously. Data points are collected every ten seconds. Thirty-six (36) equally spaced data points are used to calculate the six-minute average. |
| Data Collection Procedure | The six-minute averages are calculated and recorded by the DAHS.  |
| Averaging Time            | 1 hour block average  |

### III. Monitoring Approach Justification

#### A. Background

The pollutant-specific emission control devices are four by four field ESPs, controlling particulate matter from each boiler. Units 5 & 6 (B25 and B26) are arch-fired boilers, while units 7 & 8 (B27 and B28) are tangentially-fired boilers. Each pair of units discharge into a common stack (Unit 5 & 6 into common stack 3 [stack S13] and units 7 & 8 into common stack 4 [stack S14]). Units 5 & 6 and 7 & 8 are paired units (identical design, construction, fuel consumption and operation). Each pair of units burns the same fuels (subbituminous coal from the Powder River Basin).

#### B. Rationale for Selection of Performance Indicators

These precipitators have a wide margin of performance. Emissions are significantly less than 0.15 lbs./mmBtu. for B25 and B26 and 0.10 lbs./mmBtu for B27 and B28, as demonstrated in the biennial PM tests. It's because of this outstanding performance that WE believes opacity is a good indicator of precipitator performance.

The PM levels have been low enough to successfully petition the Department for an exemption for biennial stack testing in accordance with NR 439.075(4)1.b. For example, Unit 7 testing on March 19, 2002 showed PM emissions at 0.0094 lbs./mmBtu, which is 9% of the limit, Unit 8 testing on April 15, 1999 showed PM emissions at 0.0302 lbs./mmBtu, which is 30% of the limit, Unit 5 testing on October 17, 2000 showed PM emissions at 0.0216 lbs./mmBtu, which is 14% of the limit and Unit 6 testing on October 18, 2000 showed PM emissions at 0.018 lbs./mmBtu, which is 12% of the limit.

Our stack opacity monitors have been installed, and certified according to Performance Specification 1, 40 CFR 60 [Performance Specification 1 – Specifications and Test Procedures for Continuous Opacity Monitoring Systems in Stationary Sources].

To use opacity as an indicator of precipitator performance, WE intends to perform testing on each pair of units to develop a particulate matter versus opacity correlation curve. Since each pair of units sharing a common stack are identical to each other, testing will be conducted on one unit in each pair of units. Even though the compliance opacity monitor is located on the stack, each unit has an opacity monitor mounted on the precipitator discharge ductwork. It is not certified, and it's main purpose is to serve as an operating tool.

WE will perform a series of PM tests on the discharge side of the precipitator, measuring the grain loading in the ductwork. In the vicinity where the particulate tests will be performed, an opacity monitor is located. During the testing, we will record minute opacity readings from that monitor electronically.

To develop a PM mass versus opacity correlation requires increasing the PM loading in the ductwork, measuring the output of the duct opacity monitors and the PM loading in the duct. At the same time, PM levels will be determined using Performance Specification Method 5 in 40 CFR Part 60 including backhalf.

The actual PM loading in the discharge duct will be determined through at least three sets of emission tests, at each PM loading condition, using EPA reference method listed above.

The various PM loading conditions will be established by de-tuning the precipitators. The low loading condition will be established with all the fields in service. The mid loading condition will be created by removing a number of transformer rectifier (TR) sets from service. For the high loading condition, several more sets will be shutdown.

Each pair of units discharge into a common stack (Unit 5 & 6 into common stack 3 [stack S13] and units 7 & 8 into common stack 4 [stack S14]). Testing will take place on a unit. Even though the compliance monitors for opacity are located on the stack, throughout this testing program, WE will be very conscious of keeping opacity and PM below the permit limits on the unit that being tested.

The testing team is very conscious of the PM limit for the unit, which is 0.10 lbs./mmBtu, or 0.15 lbs./mmBtu and the stack opacity limit of 20%. We point out that these readings are being taken from a duct opacity monitor that is handling gas flow from a single unit and one-half of the gas flow being discharged into the stack. During our testing, as during all times of operation, every effort will be made to keep instantaneous and six minute duct opacity readings below 20%.

From the data collected during the PM study, WE expects to see that opacity levels will reach their limit of 20% long before any unit reaches their relevant PM emission limit. It is for this reason that WE believes opacity is an appropriate indicator of precipitator performance under the requirements of CAM.

Units 5 & 6 and 7 & 8 are paired units (identical design, construction, fuel consumption and operation). Each pair of units burns the same fuels (subbituminous coal from the Powder River Basin). Because the paired units are identical units, WE is proposing to only test on one of the pairs of units. WE will test either units 5 or 6, and 7 or 8, and apply the results to both units of that pair.

#### C. Rationale for Selection of Indicator Ranges

Since the compliance demonstration method called out in the permit is three runs of at least 60 minutes, using U.S. EPA Method 5, an excursion is defined as a 3-hour block average period in which the opacity is greater than the determined opacity percent. When an excursion occurs, corrective action will be initiated, beginning with an evaluation of the occurrence to determine the action required correcting the situation. All excursions will be documented and reported.



SEE INSTRUCTIONS ON REVERSE SIDE

|   |  |                                    |
|---|--|------------------------------------|
| 1. Facility name and mailing address  | Name   | Wisconsin Electric Power Oak Creek |
|   | Street or Route                              | 4801 E. Elm Road                   |
|   | City, State, Zip Code                        | Oak Creek WI. 53154                |
| 2. Facility location  | Street Address                               | 4801 E. Elm Road                   |
|   | City, County                                 | Oak Creek Milwaukee County         |
| 3. Parent corporation   | Name   | Wisconsin Electric Power Co.       |
|   | Street or Route                              | 231 W. Michigan                    |
|   | City, State, Zip Code                        | Milwaukee, WI. 53201               |
|   | Country (if not U.S.)                        |                                    |
| 4. Responsible official   | Name   | Robert Hall                        |
|   | Title  | Asset Manager                      |
|   | Telephone                                    | (414) 571-3291                     |
| 5. Permit contact person  | Name   | Paul White                         |
|   | Title  | Senior Environmental Engineer      |
|   | Telephone                                    | (414) 221-2219                     |
| 6. SIC code: 4911   | 7. Facility identification number: 241007690 |                                    |
| 8. Primary activity of the operating establishment: Electrical power generation   |  |                                    |
| 9. Type of permit   |  |                                    |
| <input type="checkbox"/> Construction permit  |  |                                    |
| <input type="checkbox"/> Operation Permit <u>OR</u> <input checked="" type="checkbox"/> Operation Permit Renewal  |  |                                    |
| <input checked="" type="checkbox"/> Part 70 Source Application  |  |                                    |
| <input type="checkbox"/> Non - Part 70 Source Application   |  |                                    |
| <input type="checkbox"/> Synthetic Minor, Non - Part 70 Source Application  |  |                                    |
| <input type="checkbox"/> Elective operation permit  |  |                                    |
| Anticipated start date for construction: ___ / ___ / ___  |  |                                    |
| Anticipated start date for operation: ___ / ___ / ___   |  |                                    |
| This application is requesting an expedited review (see instructions) <input type="checkbox"/> Yes <input type="checkbox"/> No  |  |                                    |
| 10. If facility is located in an area designated as "nonattainment", indicate the pollutant for the nonattainment designation.<br>OZONE   |  |                                    |
| 11. List all air pollution permits and orders issued to this facility (if a renewal application, just list those issued since the issuance date of your existing operation permit). Construction permit #01-RV-103  |  |                                    |
| 12. If Renewal Application: List all air pollution control permit applications you have submitted on which the Department has not yet taken action. (If no permit number has been assigned yet, indicate the date of the application)<br>Construction Permit dated December 14, 2001 to construct and operate two two Super Critical Pulverized Coal (SCPC) units and one Integrated Gasification combined Cycle (IGCC) unit. Permit exemption request dated April 11, 2002 for ash storage facility. |  |                                    |
| 13. If Renewal Application: List all permit exemptions received from the Department since the issuance date of your existing operation permit. (Reference these by the date of the exemption letter or the exemption number if one was assigned.) See Section 12 above  |  |                                    |

Use of this form is required by the Department for any air pollution control permit application filed pursuant to ss. 285.61, 285.62 or 285.66, Wis Stats. Completion of this form is mandatory. The Department will not consider or act upon your application unless you complete and submit this form. It is not the Department's intention to use any personally identifiable information from this form for any other purpose.

In order for a comprehensive air quality analysis to be accomplished, a facility plot plan **MUST** be included with the permit application. If the application is for an initial operation permit, submit the elements under #2 below. If the application is for a renewal, answer #1 below first.

1. Have there been changes to the facility plot plan since the previous operation permit application was submitted?
- No. The plot plan submitted with the original application can be used for the renewal.
- Yes. An up-to-date plot plan is attached. See construction application submittal for December 14, 2001. or subsequent revisions.

2. If there have been changes to the facility plot plan since the last operation permit application submittal, RESUBMIT an up-to-date plot plan which must include the following or the permit application will be deemed incomplete:

**FOR DEPARTMENT USE ONLY**

| COMPLETE                 | INCOMPLETE | NOT APPLICABLE |
|--------------------------|------------|----------------|
| <input type="checkbox"/> |            |                |
| <input type="checkbox"/> |            |                |
| <input type="checkbox"/> |            |                |
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| <input type="checkbox"/> |            |                |
| <input type="checkbox"/> |            |                |
| <input type="checkbox"/> |            |                |
| <input type="checkbox"/> |            |                |

1. A building layout (blueprint, plan view) including all buildings occupied by or located on the site of the facility.
2. The maximum height of each building (excluding stack height).
3. The location and numerical designation of each stack. Please ensure these designations correspond to the appropriate stacks listed on the other permit forms in this application.
4. The location of fenced property lines (if any).
5. Identify direction "North" on all submittals.
6. All drawings shall be to scale and shall have the scale graphically depicted.
7. An additional regional map depicting the facility location in relation to the surrounding vicinity (roads or other features) shall be included.

Are there any outdoor storage piles on the facility site?  Yes  No

If so, what material does the pile(s) consist of? Coal

Are there any dirt roads or unpaved parking lots on the facility site?  Yes  No

SOURCE AND SITE DESCRIPTIONS  
AIR POLLUTION CONTROL PERMIT APPLICATION  
Form 4530-102 Rev. 12-99

Information attached? \_\_ (y/n)

Use of this form is required by the Department for any air pollution control permit application filed pursuant to ss. 285.61, 285.62 or 285.66, Wis Stats. Completion of this form is mandatory. The Department will not consider or act upon your application unless you complete and submit this form. It is not the Department's intention to use any personally identifiable information from this form for any other purpose.

1. Briefly describe the proposed project or existing Unit(s) to be permitted. Attached supplemental forms as needed.

Oak Creek Plant consists of 4 coal-fired boilers and 1 combustion turbine, ranging in capacity from 265 MW (units B25 and B26) to 307 MW (B27 and B28). The gas-fired combustion turbine is rated at 21 MW. The main fuel supply is pulverized coal along with natural gas and propane used for coal flame stabilization at low loads and boiler start up. Coal is delivered by rail cars and/or lake barges and stored on the property. Approximately 700,000 tons of coal is stored in 2 storage piles. This represents approximately 70 days supply. Average daily plant consumption is 5,000-10,-000 tons (depending on system demands.). Particulate emissions are controlled by high efficiency electrostatic precipitators.

For Renewal Applications:

1. Were any new or modified emissions units installed/modified at the facility since the last operation permit issuance date?

- No. Proceed to form 4530-102A.  
 Yes. Answer the following questions:

2. Briefly describe any new/modified emissions units installed at the facility since the last operation permit issuance date and include the following information. Attach supplemental forms as needed.

Low NOx Boilers

- a. List the Department issued construction and/or operation permit number as applicable (identifying which units were covered by which permit if multiple permits issued).  
#01-RV-103 Low NOx Boilers
- i. If operation permit application forms were submitted for the new emission unit(s) covered by the construction permit mentioned above, reference the date of that application.  
#01-RV-103 July 20, 2001
- ii. For Part 70 Sources Only: If no operation permit application forms were submitted for the new emissions unit(s) covered by the construction permit mentioned above, complete the appropriate forms 4530-118 through 4530-125.
- b. Include the Department issued construction permit exemption number, if one was assigned, or reference the date of the letter of the exemption.

2. Site Description

The plant is located at 4801 E. Elm road in the City of Oak Creek, Milwaukee County., approximately 20 miles south of Milwaukee. The site occupies more than 400 acres of land on the shores of Lake Michigan.

Use of this form is required by the Department for any air pollution control permit application filed pursuant to ss. 285.61, 285.62 or 285.66, Wis Stats. Completion of this form is mandatory. The Department will not consider or act upon your application unless you complete and submit this form. It is not the Department's intention to use any personally identifiable information from this form for any other purpose.

1. List all significant existing or proposed air pollution units, operations, and activities at the facility. A short narrative of the inventory of air pollution emissions unit (e.g., boiler, printing line, etc.) followed by equipment specifications will suffice. If the facility consists of several individual emission units, present this information in an outline format. (See instruction booklet for an example Unit description.)

- A) Boiler: Unit 5, B25, S13, C25  
Manufacturer: Foster Wheeler  
Type: Wall (Arch) Fired, Dry Bottom  
Firing Mode: Single  
Max Heat Input: 2488 million BTU/Hr  
Max Hourly Coal Use: 100 Tons/Hr  
Air Pollution Control: Electrostatic Precipitator  
Notes: Natural gas for ignition
  
- B) Boiler: Unit 6, B26, S13, C26  
Manufacturer: Foster Wheeler  
Type: Wall (Arch) Fired, Dry Bottom  
Firing Mode: Single  
Max Heat Input: 2516 million BTU/Hr  
Max Hourly Coal Use: 100 Tons/Hr  
Air Pollution Control: Electrostatic Precipitator  
Notes: Natural gas for ignition
  
- C) Boiler: Unit 7, B27, S14, C27  
Manufacturer: Combustion Engineering  
Type: Tangential Fired, Dry Bottom  
Firing Mode: Single  
Max Heat Input: 2856 million BTU/Hr  
Max Hourly Coal Use: 120 Tons/Hr  
Air Pollution Control: Electrostatic Precipitator  
Notes: Natural gas for ignition
  
- D) Boiler: Unit 8, B28, S14, C28  
Manufacturer: Combustion Engineering  
Type: Tangential Fired, Dry Bottom  
Firing Mode: Single  
Max Heat Input: 3009 million BTU/Hr  
Max Hourly Coal Use: 120 Tons/Hr  
Air Pollution Control: Electrostatic Precipitator  
Notes: Natural gas for ignition
  
- E) Combustion Turbine: Unit 9, P30, S15  
Manufacturer: Westinghouse  
Type: Simple Cycle  
Air Pollution Control: None  
Fuel: Natural gas with #2 oil back-up  
Notes: Peaking generator and for plant start-up/shutdown activities
  
- F) Coal Pile #1: S16, F01  
Storage Area: 5.5 acres  
Nominal Storage: 68,000 tons

- G) Coal Pile #2: S17, FO2  
Storage Area: 18.5 acres  
Nominal Storage: 383,000 tons
- H) Ferric Chloride Tank: TO1  
Tank Size: 11.75ft \* 12ft diameter  
Tank Capacity: 4 inch to outside air  
Vent Size: 4 inch to outside air  
Annual Throughput: 135,450 gallons  
Calculated Emissions: 734 Lbs/Yr

For Renewal Applications:

1. If there were any new or modified emissions units installed/modified at the facility since the last operation permit issuance date:

- a. If any of these new/modified units were exempt from construction permit requirements, but are significant emissions units and operation permit application(s) for the new unit(s) were submitted to the Department reference the date of those submittals.
- b. If any of the new/modified units are insignificant emissions units list them on form 4530-102B.
- c. If any of the new/modified emissions units do not fit any of the above categories, fill out the appropriate forms for each emissions unit as follows:
  - i. For Part 70 Sources: Fill out the appropriate forms 4530-103 through 4530-133; OR
  - ii. For Synthetic Minor Non Part-70 Sources and Non-Part 70 Sources: Fill out the appropriate forms 4530-103 through 4530-117 and 4530-126 through 4530-129.

Use of this form is required by the Department for any air pollution control permit application filed pursuant to ss. 285.61, 285.62 or 285.66, Wis Stats. Completion of this form is mandatory. The Department will not consider or act upon your application unless you complete and submit this form. It is not the Department's intention to use any personally identifiable information from this form for any other purpose.

1. Mark all insignificant existing or proposed air pollution units, operations, and activities at the facility listed below. If not listed, provide a short narrative of the inventory of air pollution emissions unit (e.g., boiler, printing line, etc.) followed by equipment specifications. If the facility consists of several individual emission units, present this information in an outline format. **For Renewal Applications, identify those that are new since the last update to your application.** (See instruction booklet for an example Unit description.)

- Maintenance of Grounds, Equipment, and Buildings (lawn care, painting, etc.)
- Boiler, Turbine, and HVAC System Maintenance
- Pollution Control Equipment Maintenance
- Internal Combustion Engines Used for Warehousing and Material Transport
- Fire Control Equipment
- Janitorial Activities
- Office Activities
- Convenience Water Heating
- Convenience Space Heating (< 5 million BTU/hr Burning Gas, Liquid, or Wood)
- Fuel Oil Storage Tanks (< 10,000 gal.)
- Demineralization and Oxygen Scavenging of Water for Boilers
- Purging of Natural Gas Lines
- Sanitary Sewer and Plumbing Venting
- Sodium Hypochlorite Storage Tank  
This is a 5,000 gallon storage tank which provides Sodium Hypochlorite used to combat the growth of Zebra Mussel colonies in the plant water system and miscellaneous service water systems. Emission levels fall below inclusion levels for this permit.
- Sodium Bisulfite Storage Tank  
This is a 5,000 gallon storage tank which provides Sodium Bisulfite to the plant circulating water discharge. This chemical neutralizes any uncombined Sodium Hypochlorite used for Zebra Mussel control before the water is returned to Lake Michigan. Emission levels fall below inclusion levels for this permit.
- Sodium Hydroxide Storage Tank  
This is a 12,000 gallon storage tank which provides caustic for pH control of plant wastewater. Emission levels fall below inclusion levels for this permit.

SIGNATURE OF RESPONSIBLE OFFICIAL

A. STATEMENT OF COMPLETENESS

I have reviewed this application in its entirety and, based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this application are true, accurate and complete.

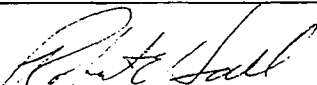
B. FOR RENEWALS ONLY

I have reviewed this application, the original operation permit application dated November 26, 2001, and operation permit number 241007690-P01 in their entirety and, based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this renewal application are true, accurate and complete.

C. CERTIFICATION OF FACILITY COMPLIANCE STATUS (check one box only)  
THIS IS NOT A REQUIREMENT OF NON-PART 70 SOURCES.

- I certify that the facility described in this air pollution permit application is fully in compliance with all applicable requirements.
- I certify that the facility described in this air pollution permit application is fully in compliance with all applicable requirements, except for the following emissions unit(s):

\_\_\_\_\_  
(list all non-complying units)

|   |                     |
|---|---------------------|
| Printed or Typed Name Robert Hall   | Title Asset Manager |
| Signature  | Date Signed 5/29/02 |

SEND ALL MATERIALS TO:

WISCONSIN DEPARTMENT OF NATURAL RESOURCES  
BUREAU OF AIR MANAGEMENT  
OPERATION PERMIT TEAM LEADER  
P.O. BOX 7921  
MADISON, WI 53707-7921

U.S. DISTRICT COURT  
EASTERN DISTRICT-WI

IN THE UNITED STATES DISTRICT COURT  
FOR THE EASTERN DISTRICT OF WISCONSIN

03 SEP 29 01:35

|                           |   |
|---------------------------|---|
| _____                     | ) |
| UNITED STATES OF AMERICA, | ) |
|                           | ) |
| Plaintiff,                | ) |
|                           | ) |
| v.                        | ) |
|                           | ) |
| WISCONSIN ELECTRIC        | ) |
|                           | ) |
| Defendant.                | ) |
| _____                     | ) |

Civil Action No.

03 - C - 0371

COMPLAINT

The United States of America ("United States"), by authority of the Attorney General of the United States and through the undersigned attorneys, acting at the request of the Administrator of the United States Environmental Protection Agency ("EPA"), alleges as follows:

NATURE OF THE ACTION

1. This is a civil action brought against the Wisconsin Electric, ("Wisconsin Electric") pursuant to Sections 113 and 167 of the Clean Air Act ("the Act"), 42 U.S.C. §§ 7413 and 7477, for injunctive relief and the assessment of civil penalties for violations of the Prevention of Significant Deterioration ("PSD") provisions of the Act, 42 U.S.C. §§ 7470-92, and the federally approved and enforceable Michigan and Wisconsin State Implementation Plans (the "Michigan and Wisconsin SIPs").
2. As set forth more fully herein, between 1982 and the present, Wisconsin Electric modified and thereafter operated certain coal-fired electricity generating units without

- Exhibit E



first obtaining a PSD permit authorizing the construction and without installing the best available technology to control emissions of sulfur dioxide, nitrogen oxides, and particulate matter, as required by the Act, applicable federal regulations, and the Michigan and Wisconsin SIPs.

3. As a result of Wisconsin Electric's operation of these unlawfully modified electricity generating units without appropriate pollution controls, massive amounts of sulfur dioxide, nitrogen oxides, and particulate matter have been, and still are being, released into the atmosphere.
4. Sulfur dioxide, nitrogen oxides, and particulate matter, when emitted into the air, can each adversely impact the environment and human health. Electric utility plants like Wisconsin Electric's collectively account for about 70 percent of annual SO<sub>2</sub> emissions and 30 percent of NO<sub>x</sub> emissions in the United States.
5. Sulfur dioxide, or "SO<sub>2</sub>," interacts with other chemicals in the atmosphere to form sulfate aerosols, which can be transported long distances. In the eastern United States, sulfate aerosols make up about 25 percent of all inhalable particles. According to recent studies, high levels of sulfate aerosols in the air are associated with increased sickness and mortality from lung disorders, such as asthma and bronchitis. A decrease in sulfate aerosol emissions from electric utility plants may significantly reduce the incidence and severity of asthma and bronchitis and associated hospital admissions and emergency room visits resulting from these ailments.
6. Nitrogen oxides, or "NO<sub>x</sub>," have numerous adverse effects on health and welfare. NO<sub>x</sub> reacts with other pollutants and sunlight to form ground-level ozone, which scientists

have long recognized as harming human health and causing environmental damage.

Ozone can inflame and potentially cause permanent damage to human lungs, triggering respiratory problems and decreasing lung capacity, especially among children who are active outdoors. In addition, ozone can damage vegetation. Nitrogen dioxide ("NO<sub>2</sub>"), a type of NO<sub>x</sub>, is a dangerous pollutant that can cause people to have difficulty breathing by constricting lower respiratory passages. It can also weaken a person's immune system, causing increased susceptibility to pulmonary and other forms of infections. While children and asthmatics are the most sensitive, individuals suffering from bronchitis, emphysema, and other chronic pulmonary diseases also have a heightened sensitivity to NO<sub>2</sub> exposure.

7. SO<sub>2</sub> and NO<sub>x</sub> interact in the atmosphere with water and oxygen to form nitric and sulfuric acids, commonly known as acid rain. Acid rain, which also comes in the form of snow or sleet, "acidifies" lakes and streams, rendering them uninhabitable for aquatic life, and damages trees at high elevations. It also accelerates the decay of building materials and paints, including irreplaceable buildings, statues, and sculptures that are part of our nation's cultural heritage. SO<sub>2</sub> and NO<sub>x</sub> gases and their particulate matter derivatives, sulfates and nitrates, contribute to visibility degradation and adversely impact public health.
8. Particulate matter, or "PM," is the term for solid or liquid particles found in the air. Smaller PM of a diameter of 10 micrometers or less is referred to as PM-10. Power plants are a major source of PM. Breathing PM at concentrations in excess of existing ambient air standards may damage lung tissue and increase the chances of respiratory

disease, cancer, and premature death. The elderly, children, and people with chronic lung disease, influenza, or asthma, are especially sensitive to the effects of PM. PM can also reduce visibility and damage man-made materials. A reduction in the amount of PM illegally released into the atmosphere by Wisconsin Electric and others will significantly reduce the serious health and environmental effects caused by airborne PM.

#### JURISDICTION AND VENUE

9. This Court has jurisdiction of the subject matter of this action pursuant to Sections 113(b) and 167 of the Act, 42 U.S.C. §§ 7413(b) and 7477, and 28 U.S.C. §§ 1331, 1345, and 1355.
10. Venue is proper in this District pursuant to Section 113(b) of the Act, 42 U.S.C. § 7413(b), and 28 U.S.C. § 1391(b) and (c), because some of the violations that are the subject of this Complaint occurred at a Wisconsin Electric facility within this District.

#### NOTICES

11. In accordance with Section 113(a)(1), 42 U.S.C. §§ 7413(a)(1), EPA has provided the States of Michigan and Wisconsin with actual notice of Wisconsin Electric's violations. EPA, Michigan, and Wisconsin have jointly discussed the Wisconsin Electric alleged violations at Wisconsin Electric's Oak Creek Generating Station in Wisconsin through oral and written communications among the three agencies.
12. The 30-day period between Michigan's and Wisconsin's receipt of actual notice and commencement of this civil action, as required by 42 U.S.C. § 7413(a)(1), has elapsed.

13. Notice of the commencement of this action has also been given to Michigan and Wisconsin, as required by Section 113(b) of the Act, 42 U.S.C. § 7413(b).

#### THE DEFENDANT

14. At all times relevant to this action, including the present, Wisconsin Electric owned and operated the electricity generating units at the Presque Isle Generating Station in Marquette County, Michigan, the Oak Creek Generating Station in Milwaukee County, Wisconsin, the Pleasant Prairie Generating Station in Kenosha County, Wisconsin, the Port Washington Generating Station in Ozaukee County, Wisconsin, and the Valley Generating Station in Milwaukee County, Wisconsin. Wisconsin Electric is also the current owner and operator of these plants and electricity generating units.
15. Wisconsin Electric is incorporated under the laws of the State of Delaware, and is a "person" within the meaning of Section 302(e) of the Act, 42 U.S.C. § 7602(e).

#### STATUTORY AND REGULATORY BACKGROUND

16. The Clean Air Act was designed to protect and enhance the quality of the nation's air so as to promote the public health and welfare and the productive capacity of its population. See CAA § 101(b)(1), 42 U.S.C. § 7401(b)(1).

##### A. The National Ambient Air Quality Standards

17. Section 108(a) of the Act, 42 U.S.C. § 7408(a), requires the Administrator of EPA to identify and promulgate air quality criteria for each air pollutant which may endanger public health or welfare when emitted, and which results from numerous or diverse mobile or stationary sources. For each such pollutant, Section 109 of the Act, 42 U.S.C. § 7409, requires EPA to promulgate national ambient air quality standards ("NAAQS")

requisite to protect the public health and welfare. Pursuant to Sections 108 and 109, EPA has identified and promulgated NAAQS for NO<sub>2</sub>, SO<sub>2</sub>, PM (now measured in the ambient air as PM<sub>10</sub>, previously measured as TSP) and ozone. See 40 C.F.R. §§ 50.4 - 50.11.

18. Under Section 107(d) of the Act, 42 U.S.C. § 7407(d), each state is required to designate those areas within its boundaries where the air quality is better or worse than the NAAQS for each criteria pollutant, or where the air quality cannot be classified due to insufficient data. An area that meets the NAAQS for a particular pollutant is an "attainment" area. An area that does not meet the NAAQS is a "nonattainment" area. An area that cannot be classified due to insufficient data is "unclassifiable."
19. At all times relevant to this action, the plants comprising the Wisconsin Electric System were located in areas that had been classified as attainment or unclassifiable for SO<sub>2</sub>, NO<sub>2</sub>, and PM/PM<sub>10</sub>/TSP, except the Valley Power Plant, which was located in an area that had been classified as nonattainment for SO<sub>2</sub> and TSP.

B. The Prevention of Significant Deterioration Requirements

20. Part C of Title I of the Act, 42 U.S.C. §§ 7470-7492, sets forth requirements for the prevention of significant deterioration ("PSD") of air quality in those areas designated as either attainment or unclassifiable for purposes of meeting the NAAQS standards. These requirements are designed to protect public health and welfare, to assure that economic growth will occur in a manner consistent with the preservation of existing clean air resources, and to assure that any decision to permit increased air pollution is made only after careful evaluation of all the consequences of such a decision and after public

participation in the decision making process. These provisions are referred to herein as the "PSD program."

21. Sections 110(a) and 161 of the Act, 42 U.S.C. §§ 7410(a) and 7471, require each state to adopt a state implementation plan ("SIP") that contains emission limitations and such other measures as may be necessary to prevent significant deterioration of air quality in areas designated as either in attainment with NAAQS or unclassifiable.
22. A state may comply with Sections 110(a) and 161 of the Act by having its own PSD regulations approved by EPA as part of its SIP, which must be at least as stringent as those set forth at 40 C.F.R. § 51.166. If a state does not have a PSD program that has been approved by EPA and incorporated into the SIP, the federal PSD regulations set forth at 40 C.F.R. § 52.21 may be incorporated by reference into the SIP. 40 C.F.R. § 52.21(a).
23. Up until May 27, 1999, Wisconsin's SIP incorporated by reference the federal PSD regulations of 40 C.F.R. § 52.21(b) through (w). See 40 C.F.R. § 52.2581(d) and (e); 45 Fed. Reg. 52741 (August 7, 1980), as amended at 46 Fed. Reg. 9585 (January 29, 1981); 64 Fed. Reg. 28748 (May 27, 1999). In 1999, EPA approved new Wisconsin-specific PSD regulations for PSD permitting. See 64 Fed. Reg. 28748 (May 27, 1999) (final rule). These new requirements are federally enforceable. Chapter NR § 405. See 64 Fed. Reg. 28748 (May 27, 1999).
24. Any major stationary source in an attainment or unclassifiable area that intends to construct a major modification or new major source must first obtain a PSD permit. See 40 C.F.R. § 52.21.

25. Under the PSD program, a "major stationary source" is defined to include fossil fuel-fired steam electric plants of more than 250 million British thermal units (Btu) per hour heat input which emit or had the potential to emit one hundred tons per year or more of any regulated air pollutant. 40 C.F.R. § 52.21(b)(1)(i)(a).
26. The PSD program defines the term "construction" as "any physical change or change in the method of operation (including fabrication, erection, installation, demolition, or modification of an emissions unit) which would result in a change in emissions." 40 C.F.R. § 52.21(b)(8). See also 42 U.S.C. § 7479(2)(C) ("construction" includes the "modification" of a source or facility).
27. The PSD program defines the term "major modification" as any physical change in or change in the method of operation of a major stationary source that would result in a significant net emission increase of any pollutant subject to regulation under the Act. 40 C.F.R. § 52.21(b)(2).
28. "Net emissions increase" means "the amount by which the sum of the following exceeds zero: (a) Any increase in actual emissions [as defined by 40 C.F.R. § 52.21(b)(21)] from a particular physical change or change in method of operation at a stationary source; and (b) any other increases and decreases in actual emissions [as defined by 40 C.F.R. § 52.21(b)(21)] at the source that are contemporaneous with the particular change and are otherwise creditable." 40 C.F.R. § 52.21(b)(3)(i). "Significant" means a rate of emissions that would equal or exceed any of the following rates for the following pollutants: NO<sub>x</sub>, 40 tons per year; SO<sub>2</sub>, 40 tons per year; and PM, 25 tons per year. 40 C.F.R. § 52.21(b)(23)(i).

29. As set forth at 42 U.S.C. § 7475(a)(4) and 40 C.F.R. § 52.21(j), a source with a major modification in an attainment or unclassifiable area must install and operate the best available control technology ("BACT"), as defined in 40 C.F.R. § 52.21(b)(12) and 42 U.S.C. § 7479(3), where the modification would result in a significant net emissions increase of a pollutant subject to regulation under the Act. 42 U.S.C. § 7475(a)(4).
30. Any application for a PSD permit must be accompanied by an analysis of ambient air quality in the area. 40 C.F.R. § 52.21(m).
31. The PSD program also requires any person who wishes to modify a major source in an attainment area to demonstrate, before construction commences, that the construction will not cause or contribute to air pollution that is in violation of any national ambient air quality standard or the maximum allowable increase in emissions of that pollutant. 40 C.F.R. § 52.21(k).
32. In addition, the owner or operator of a proposed source or modification must submit all information necessary to perform any analysis or make any determination required under 40 C.F.R. § 52.21(n).

### C. Clean Air Act Enforcement Provisions

33. Section 113(a)(1) of the Act, 42 U.S.C. § 7413(a)(1), provides that:

Whenever, on the basis of any information available to the Administrator, the Administrator finds that any person has violated or is in violation of any requirement or prohibition of an applicable implementation plan or permit, the Administrator shall notify the person and the State in which the plan applies of such finding. At any time after the expiration of 30 days following the date on which the notice of violation is issued, the Administrator may . . .



\* \* \*

(C) bring a civil action in accordance with subsection (b) of this section.

34. Section 113(a)(3) of the Act, 42 U.S.C. § 7413(a)(3), provides that:

“except for a requirement or prohibition enforceable under the preceding provisions of this subsection, whenever, on the basis of any information available to the Administrator, the Administrator finds that any person has violated, or is in violation of, any other requirement or prohibition of this subchapter . . . including, but not limited to, a requirement or prohibition of any rule, plan, order, waiver, or permit promulgated, issued or approved under those provisions or subchapters . . . the Administrator may . . . bring a civil action in accordance with subsection (b) of this section . . . .”

35. Section 113(b)(1) of the Act, 42 U.S.C. § 7413(b)(1), and 40 C.F.R. § 52.23 authorize the Administrator to initiate a judicial enforcement action for a permanent or temporary injunction, and/or for a civil penalty of up to \$25,000 per day of violation for violations occurring before January 30, 1997 and \$27,500 per day for each such violation occurring on or after January 30, 1997, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990, 28 U.S.C. § 2461, as amended by 31 U.S.C. § 3701, against any person whenever such person has violated, or is in violation of any requirement or prohibition of an applicable implementation plan.
36. Section 113(b)(2) of the Act, 42 U.S.C. § 7413(b)(2), authorizes the Administrator to initiate a judicial enforcement action for a permanent or temporary injunction, and/or for a civil penalty of up to \$25,000 per day of violation for violations occurring before January 30, 1997 and \$27,500 per day for each such violation occurring on or after January 30, 1997, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990, 28 U.S.C. § 2461, as amended by 31 U.S.C. § 3701, against any person whenever

such person has violated, or is in violation of, requirements of the Act other than those specified in Section 113(b)(1), 42 U.S.C. § 7413(b)(1), including violations of Section 165(a), 42 U.S.C. § 7475(a).

37. Section 167 of the Act, 42 U.S.C. § 7477, authorizes the Administrator and a state to initiate an action for injunctive relief, as necessary, to prevent the construction, modification or operation of a major emitting facility that does not conform to PSD requirements.

E. General Allegations

38. At all times pertinent to this civil action, Wisconsin Electric has been the owner and operator of the plants identified in Paragraph 14 of this Complaint, including all of the boilers at those facilities.
39. At all times pertinent to this civil action, the electricity generating units at the plants identified in Paragraph 14 were each a "major stationary source," within the meaning of the Act for NO<sub>x</sub>, SO<sub>2</sub>, and PM for purposes of the PSD program. Each of these plants was also a "source" or "facility" within the meaning of the attainment and nonattainment Michigan and Wisconsin SIP general permit requirements.

CLAIM FOR RELIEF

( PSD Violations at Wisconsin Electric's Oak Creek Plant)

40. Paragraphs 1 through 39 are realleged and incorporated herein by reference.
41. At various times, Wisconsin Electric commenced construction and operation of major modifications, as defined in Paragraph 27 herein, at its Oak Creek Plant in Wisconsin. These major modifications included, but were not limited to, replacement of economizers, induced draft fans, waterwall tubes, reheaters and superheaters on one or more units at the plant. These modifications resulted in significant net emissions increases, as defined by 40 C.F.R. § 52.21(b)(3)(i), of one or more of the following pollutants: NO<sub>x</sub>, SO<sub>2</sub>, and PM.
42. Upon information and belief, Wisconsin Electric undertook similar major modifications at one or more of its other facilities which resulted in significant net emissions increases, as defined by 40 C.F.R. § 52.21(b)(3)(i), of one or more of the following pollutants: NO<sub>x</sub>, SO<sub>2</sub>, and PM.
43. Wisconsin Electric violated and continues to violate Section 165(a) of the Act, 42 U.S.C. § 7475(a), and the PSD regulations set forth in 40 C.F.R. § 52.21, as incorporated into the Wisconsin SIP, by, *inter alia*, undertaking such major modifications at units located at the Oak Creek Plant and operating these modified units at the plant without: (a) obtaining a PSD permit, as required by 40 C.F.R. § 52.21(i) and the Wisconsin SIP; (b) applying best available control technology for NO<sub>x</sub>, SO<sub>2</sub>, and PM, as required by 40 C.F.R. § 52.21(j) and the Wisconsin SIP; (c) demonstrating that construction or modification would not cause or contribute to air pollution in violation of any national and/or Wisconsin ambient

air quality standard or any specified incremental amount, as required by 40 C.F.R. § 52.21(m) and the Wisconsin SIP; (d) performing an analysis of the ambient air quality in the area, as required by 40 C.F.R. § 52.21(m) and the Wisconsin SIP; (e) submitting to EPA or Wisconsin all information necessary to conduct the analysis or make the necessary determinations under 40 C.F.R. § 52.21, as required under 40 C.F.R. § 52.21(n); and (f) obtaining the required Wisconsin state permits.

44. Based upon the foregoing, Wisconsin Electric has violated and continues to violate Section 165(a) of the Act, 42 U.S.C. § 7475(a), 40 C.F.R. § 52.21, as incorporated into the Wisconsin SIP. Unless restrained by an order of this Court, these and similar violations of the PSD provisions of the Act will continue at the Oak Creek Plant and at other plants.
45. As provided in Section 113(b) of the Act, 42 U.S.C. § 7413(b), and Section 167 of the Act, 42 U.S.C. § 7477, the PSD violations set forth above subject Wisconsin Electric to injunctive relief and civil penalties of up to \$25,000 per day for each violation at the Oak Creek Plant prior to January 30, 1997, and \$27,500 per day for each such violation on or after January 30, 1997, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990, 28 U.S.C. § 2461, as amended by 31 U.S.C. § 3701.

#### PRAYER FOR RELIEF

WHEREFORE, based upon all the allegations contained in paragraphs 1 through 45 above, the United States of America requests that this Court:

1. Permanently enjoin Wisconsin Electric from operating the electricity generating units at its Oak Creek Generating Station, including the construction of future modifications, except in accordance with the Clean Air Act and any applicable regulatory requirements;

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2. Order Wisconsin Electric to remedy its past violations by, among other things, requiring Wisconsin Electric to install, as appropriate, the best available control technology for each pollutant subject to regulation under the Clean Air Act;

3. Order Wisconsin Electric to apply to the Michigan Department of Environmental Quality and the Wisconsin Department of Natural Resources for permits that are in conformity with the requirements of the PSD program as well as the Michigan and Wisconsin SIP;

4. Order Wisconsin Electric to submit an analysis of ambient air quality in the area for each modification project as it was completed;

5. Order Wisconsin Electric to submit an analysis of the impairment to visibility, soils, and vegetation that occurred as a result of the accomplishment of the modification projects;

6. Order Wisconsin Electric to conduct audits of its operations to determine if any additional modifications have occurred that would require it to meet the requirements of the PSD program and report the results of these audits to the United States;

7. Order Wisconsin Electric to take other appropriate actions to remedy, mitigate, and offset the harm to public health and the environment caused by the violations of the Clean Air Act alleged above;

8. Assess a civil penalty against Wisconsin Electric of \$25,000 per day for each violation of the Clean Air Act and applicable regulations, and \$27,500 per day for each such violation after January 30, 1997;

9. Award Plaintiff its costs of this action; and,

10. Grant such other relief as the Court deems just and proper.

Respectfully Submitted,

*Tom Sansonetti*

THOMAS L. SANSONETTI  
Assistant Attorney General  
Environment and Natural Resources  
Division

*Nicole Veilleux*

ARNOLD ROSENTHAL  
NICOLE VEILLEUX  
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OF COUNSEL

Sabrina M. Argentieri  
Associate Regional Counsel  
Office of Regional Counsel  
U.S. EPA, Region 5  
77 W. Jackson Blvd  
Chicago, IL 60604

A handwritten signature in black ink that reads "Steven M. Biskupic". The signature is written in a cursive style with a large, sweeping "S" and a long, trailing "ic".

STEVEN M. BISKUPIC  
United States Attorney  
Eastern District of Wisconsin  
United States Department of Justice



Wisconsin Electric  
231 W. Michigan  
P.O. Box 2046  
Milwaukee, WI 53201-2046  
Phone 414 221-2345

Recd 2:40pm

February 16, 2001

H.G. 2-16-01

VIA HAND DELIVERY

Attn: David Schultz, Regional Power Industry Expert, AE-17J  
Air Enforcement and Compliance Assurance Branch  
U.S. Environmental Protection Agency, Region V  
77 West Jackson Boulevard  
Chicago, Illinois 60604

Re: Request for Information from the Wisconsin Electric Power Company Pursuant to Section 114 of the Clean Air Act

Dear Mr. Schultz:

The purpose of this letter and the enclosed documents is to respond to Bharat Mathur's letter, dated December 7, 2000, requesting certain information pursuant to Section 114 of the Clean Air Act concerning Wisconsin Electric Power Company's ("WE") coal-fired power plants (the "Information Request"). WE received this Information Request on December 15, 2000. Due to the difficulties associated with responding to the Information Request by January 14, 2001, as required by the letter, on December 22, 2000, WE requested an extension of the deadline for responding to this request until January 29, 2001. This request for an extension was granted on December 26, 2000. Subsequently, WE requested and received an additional extension until February 16, 2001 to respond to the Information Request.

#### General Objections

While WE has made a good faith effort to respond to the Information Request, WE notes, for the record, that it has several objections to both the form and content of the Information Request.

WE objects to the Information Request on the grounds that it is overly broad and unduly burdensome; it seeks information for an unreasonably long time - well beyond most record-keeping requirements implemented under the Clean Air Act; it is vague and ambiguous; and it requires legal conclusions to be made in response to it. WE also objects to the Information Request on the grounds that it exceeds the United States Environmental Protection Agency's ("U.S. EPA's") authority under § 114(a) of the Clean Air Act and to the extent that it attempts to create a duty to supplement this response with additional information - an attempt that exceeds the Agency's authority under § 114(a).

WE also objects to the Information Request to the extent that it requests information that is subject to attorney-client privilege or other applicable privilege, or that constitutes attorney work product or is otherwise not discoverable.

- Exhibit F



Mr. David Schultz  
February 16, 2001  
Page -2-

To the extent that the questions are vague, ambiguous, overly broad, or otherwise exceed U.S. EPA's authority under § 114(a), WE has made appropriate and reasonable efforts to respond to the questions to the best of its ability, and it has reasonably interpreted the questions. These interpretations are discussed further below. Certain information provided in response to the Information Request is "confidential business information," as defined by 40 CFR Part 2, Subpart B. WE has marked these documents as confidential in accordance with 40 CFR Part 2, Subpart B.

Subject to and without waiving these general objections, WE responds as follows to the Information Request.

#### Scope of WE's Response

This response contains information responsive to each of the five questions set forth in Appendix A to the Information Request with regard to WE's Oak Creek, Pleasant Prairie, Port Washington, Valley, and Presque Isle facilities. WE has also provided certain information responsive to Question 1 for four (4) facilities, which began operation on or after January 1, 1930 and which are not currently capable of being operated. Additionally, WE has an ownership interest, but not operational responsibility, for Wisconsin Power and Light's ("WP&L") Edgewater Unit 5. WE understands that WP&L, as operator, has provided information regarding Edgewater Unit 5 to U.S. EPA. WE has not included that unit in its response.

WE has made its best efforts to compile information responsive to U.S. EPA's Information Request. The Information Request, however, is vague and ambiguous to the extent that it requests information on WE's coal burning facilities. WE, therefore, has made its best efforts to interpret the scope of this request.

First, WE interpreted this request as inapplicable to its County Plant, which is an 11 MW coal-fired plant. WE acquired this plant in 1995. Prior to WE's ownership of this plant, it was publicly owned. Due to its size, County is not an "affected source" for purposes of the federal Acid Rain Program, and it is not an "electric utility steam generating unit" for purposes of the New Source Performance Standards ("NSPS") contained in 40 CFR Part 60. Therefore, WE has interpreted your Information Request as inapplicable to the County Plant.

WE has also interpreted your Information Request to apply to its Port Washington facility in the years following issuance of a Prevention of Significant Deterioration ("PSD") determination by U.S. EPA, dated June 8, 1990, and a PSD permit by the Wisconsin Department of Natural Resources ("WDNR") on September 9, 1990.<sup>1</sup> The PSD permit authorized certain physical and/or operational changes to four units at WE's Port Washington plant and was based upon a Best Available Control Technology ("BACT") analysis performed for the four units at

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<sup>1</sup> Copies of U.S. EPA's PSD determination, dated June 8, 1990, and the PSD permit, issued September 9, 1990, are attached as Attachment A to this Information Request.

Mr. David Schultz  
February 16, 2001  
Page -4-

of the Clean Air Act. Subject to and without waiving its objections, WE has made its best efforts to respond to this question. WE notes that this question is vague and ambiguous in that it does not define the terms "original design heat input capacity," "current boiler heat input capacity," "original design gross generating capacity," "original design net generating capacity," "current gross generating capacity," "current net generating capacity," and "emissions control." WE has made its best efforts to interpret these ambiguous terms as follows:

"Original Design Heat Input Capacity": The term "original design boiler heat input capacity" does not have a commonly accepted meaning within the industry. WE has assumed, however, that U.S. EPA is requesting information concerning the units' maximum boiler heat input capacity at the time of their commissioning. Based upon WE's investigation of its records, it does not have information demonstrating the "original design boiler heat input capacity" for its units. WE has, however, calculated an engineering estimate of the "original design boiler heat input capacity." The basis for this engineering estimate is the vendor's "guarantee" for boiler operation. Vendors include margins in their designs to assure meeting their "guaranteed" performance. The "guaranteed" heat input capacity, therefore, does not represent the maximum boiler heat input capacity of a boiler; the maximum boiler heat input capacity would be higher. WE has estimated, based upon typical industry practice, that the "original design heat input capacity" would be a range of between 10% and 15% above the "guaranteed" heat input capacity. Since WE has estimated the "original design heat input capacity" of its boiler based upon the guaranteed capacity, WE has also provided information concerning the guaranteed design capacity for each of its boilers for reference purposes.

"Original Design Gross Generating Capacity": The term "original design gross generating capacity" does not have a commonly accepted meaning in the industry. WE has assumed that U.S. EPA is requesting information concerning the units' gross maximum design generating capacity. The value provided by WE in this response for "original design gross generating capacity" is the generator nameplate rating at a power factor of 1.0.

"Original Design Net Generating Capacity": The term "original design net generating capacity" does not have a commonly accepted meaning in the industry. WE has assumed that U.S. EPA is requesting information concerning the units' net maximum design generating capacity. Based upon WE's investigation of its records, it does not have information demonstrating the "original design net generating capacity" for its units. At the time that the units were commissioned, the vendors did not provide this information. Instead, they provided "guaranteed" gross generating capacity. The net capacity of the units would be determined by estimating the units' design auxiliary loads. WE has not been able to gather the information necessary to calculate the original design net generating capacity for its boilers, and it does not believe that it could gather this information if it had additional time to respond to this question.

"Current Boiler Heat Input Capacity": The term "current boiler heat input capacity" does not have a commonly accepted meaning in the industry. WE has assumed that U.S. EPA is requesting information concerning the current maximum heat input capacity of its units. WE notes that it does not have information demonstrating the actual current maximum heat input

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capacity of its boilers. For purposes of this Information Request, however, WE has based the current boiler heat input capacity of its boilers on the most recent unit electrical capability testing conducted for accreditation purposes in the Mid-American Interconnected Network, Inc. ("MAIN") power pool and the demonstrated thermal performance during 2000.

"Current Gross Generating Capacity" and "Current Net Generating Capacity": The terms "current gross generating capacity" and "current net generating capacity" do not have a commonly accepted meaning in the industry. WE has assumed that U.S. EPA is requesting information concerning the current maximum electrical output of its units. For purposes of this Information Request, WE has based the current gross and net generating capacity on the most recent unit electrical capability testing conducted for accreditation purposes in the MAIN power pool.

"Emissions Control": The term "emission control" was not defined in the Information Request. For purposes of this response, WE has interpreted emission control to include the methods used by WE to comply with applicable state and federal emission control requirements, including NSPS requirements. These methods include the use of pollution control devices, as well as emission reductions achieved due to boiler design. WE has also noted those instances in which a unit burns low sulfur coal.

WE further notes that it has provided information concerning only the years of operation for its Commerce Street, East Wells, and Lakeside plants. These plants have all been retired, and boiler records for these plants could not be located.

### *Question 2*

WE objects to Question 2 because it is unduly burdensome, overly broad, ambiguous, and it requires WE to obtain information for an unreasonably long period of time and from an unreasonably large number of sources. Subject to and without waiving these objections, WE has compiled information responsive to this question. Based upon a review of records, WE has provided a variety of documents in response to Question 2. In those instances that data was not available in the precise form requested by U.S. EPA, WE has provided documents that it believes are reasonably responsive to U.S. EPA's request. WE has attached the following documents in response to this question:

1. Spreadsheets containing the information requested in this Question for its Oak Creek, Pleasant Prairie, and Valley power plants for the years January 1975-December 1985 and January 1990-December 1999; for its Presque Isle plant for the years January 1990-December 1999, and for its Port Washington plant for January 1990-December 1999.
2. "Monthly Operation Summaries" for its plants as follows:
  - a) Presque Isle: January 1989, March 1989-December 1989;

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- b) Oak Creek: January 1989-June 1989, December 1989;
  - c) Pleasant Prairie: January 1989-December 1989;
  - d) Valley: January 1989-March 1989; May 1989-December 1989;
3. Summary Reports for the Presque Isle facility from 1976-June, 1987;
  4. Energy Information Association ("EIA") forms for its Oak Creek, Pleasant Prairie and Valley plants for the years 1986-1989 and for its Presque Isle plant for the years 1982-1989; and
  5. Meter Readings for the Presque Isle plant for the years 1981-1987.
  6. A spreadsheet containing the following information not included in the EIA forms for its plants:
    - a) Oak Creek: Information concerning monthly and annual gross generation, monthly and annual net generation, and monthly and annual average heat rates for the years 1986-1988. Monthly gross generation, monthly net generation, and average heat rates for July - Nov. 1989.
    - b) Pleasant Prairie: Information concerning monthly and annual gross generation, monthly and annual net generation, and monthly and annual average heat rates for the years 1986-1988.
    - c) Presque Isle: Information concerning monthly and annual gross generation, monthly and annual net generation, and monthly and annual average heat rates for 1988. Monthly gross generation, monthly net generation, and average heat rates for Feb. 1989.
    - d) Valley: Information concerning monthly and annual gross generation, monthly and annual net generation, and monthly and annual average heat rates for the years 1986-1988. Monthly gross generation, monthly net generation, and average heat rates for April 1989.

As stated above, Wisconsin Electric purchased its Presque Isle facility on December 31, 1987 and has few records concerning that plant's operation prior to its purchase. A review of the Presque Isle plant's records disclosed the Summary Reports prepared by the prior owner that are discussed above. The Summary Reports prepared by the prior owner for the Presque Isle plant may not have been consistently maintained. WE has also included records of meter readings collected at the Presque Isle plant by the prior plant owners. These records contain information on gross and net generation over the time period provided. WE cannot and does not certify to the

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accuracy or completeness of the Summary Reports or records of meter readings. WE further notes that information responsive to this question for the Presque Isle plant for 1975 could not be located.

### *Question 3*

WE objects to Question 3 because it is unduly burdensome, overly broad, and ambiguous. It requires WE to provide information on numerous capital projects over the period of 25 years. Subject to and without waiving its objections, WE has provided the information requested by U.S. EPA. For purposes of responding to this question, WE has interpreted the Information Request to request information concerning capital projects associated with the units identified in response to Question 2 for which total capital expenditures exceeded \$250,000. Based upon this interpretation, WE has not provided information concerning capital projects which cost less than \$250,000 to complete, and it has not provided information concerning capital projects that either were not associated with an identified unit or did not have the potential to impact the operation of a identified unit. WE has also interpreted this question to apply to capital projects at existing units. WE, therefore, has not provided capital cost information for the initial construction of units on which construction commenced after 1975.<sup>3</sup> To the extent that capital projects concerning the identified units have been approved but have not been completed, WE has provided information for those projects with approved expenditures of at least \$250,000. Due to the financial nature of this information, WE has designated these documents as Confidential Business Information in accordance with 40 CFR Part 2, Subpart B, and has appropriately marked these documents.

In addition to the information provided concerning capital projects undertaken by WE at its Presque Isle plant from the years 1988 forward, WE has also provided in response to Question 3, information concerning capital projects undertaken by the prior owner of the plant during the years 1978-1982. WE notes that the information provided concerning capital projects undertaken by the prior owner does not completely address U.S. EPA's question. WE, however, has not located any additional documents concerning capital projects that occurred at the Presque Isle facility prior to its purchase of the plant in 1987. While WE has provided this information concerning capital projects at Presque Isle, it cannot and does not certify that this information is true, accurate, and complete.

WE further notes that it has only provided information concerning projects at the Port Washington facility that were undertaken after issuance of the PSD permit for that plant and that were not associated with the projects authorized under that permit, as explained above.

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<sup>3</sup> WE notes that it received construction permits for all units on which construction commenced after 1975.

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#### *Question 4*

WE objects to this question because it is unduly burdensome, overly broad, and as such, it exceeds U.S. EPA's authority under § 114(a) of the Clean Air Act. Subject to and without waiving these objections, WE has made its best efforts to provide GADs data for the 25-year period for its plants. During its investigation, WE discovered that GADs data could not be located for its Valley plant for the years 1975-1982. WE has provided data for the Valley plant for the years 1983 forward. WE has also included in its response certain "GADs-like" data, collected by the prior owners of the Presque Isle facility, for certain years prior to WE's purchase of the plant. WE cannot and does not certify to the accuracy or completeness of this data. For the Port Washington facility, WE has provided information for the years 1990-1999.

#### *Question 5*

WE objects to this question because it is unduly burdensome, overly broad, and as such, it exceeds U.S. EPA's authority under § 114(a) of the Clean Air Act. Subject to and without waiving these objections, WE is providing the summary results pages of its available stack tests for particulate matter ("PM"), sulfur dioxide ("SO<sub>2</sub>"), and nitrogen oxide ("NO<sub>x</sub>") for the time period requested. As discussed above, WE has not provided the summary test pages for stack tests conducted for the Port Washington facility prior to the compliance tests that were performed on the respective units following completion of the projects authorized under the PSD permit. WE has, however, provided summary results pages containing the results for PM, SO<sub>2</sub> and NO<sub>x</sub> for the compliance tests conducted following completion of the physical changes made to the units under the PSD permit and any stack tests conducted in the proceeding years. WE has also provided summary test results pages for certain draft stack tests performed where final test reports could not be located. WE does not certify that the results contained in these draft reports were the same results reported in the final reports prepared for these tests.

Pursuant to our conversations with you, WE has not provided RATA test results for the period 1994 forward.

#### Conclusion

In conclusion, WE has conducted a diligent, good faith effort to provide all information responsive to your Information Request. WE's production of documents, however, does not represent or act as an admission by WE that the contents of documents that were produced in response to the Information Request but were not prepared by WE for the purpose of the responding to this information request are true, complete, or accurate. WE further notes that it cannot and does not certify that the documents relating to the operation of the Presque Isle plant prior to WE's purchase of the plant on December 31, 1987 are true, complete, or accurate. Additionally, this production of documents does not act to authenticate the documents for the purposes of admissibility in any administrative or judicial proceeding.

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Attached is the certification of Kristine Krause, Vice-President, Environmental, that is being submitted with this response in accordance with your Information Request. If you have any questions concerning this response, please do not hesitate to contact me at (414) 221-2712.

Sincerely,

Susan Martin by CAF

Susan Martin  
Counsel  
Wisconsin Electric Power Company

cc: Bharat Mathur (U.S. EPA) (w/o enc.)  
Bill Bauman (WDNR) (w/enc.) ✓  
Dan Schramm (WDNR) (w/enc.)  
Barbara Rosenbaum (MDEQ) (w/enc.)  
Kristine Krause (w/o enc.)  
Cynthia Faur (w/o enc.)

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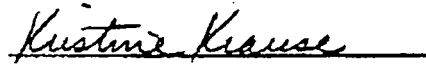
Wisconsin Electric Power Company Section 114 Response  
Dated: February 16, 2001

CERTIFICATION

To the best of my knowledge and belief, after due inquiry, I hereby certify that the response of Wisconsin Electric Power Company to the Request to Provide Information Pursuant to the Clean Air Act dated December 12, 2000, by the United States Environmental Protection Agency is true and complete.

I note that we have submitted certain documents on the Presque Isle, Michigan facility in our possession, but which cover a time period pre-dating Wisconsin Electric Power Company's ownership and control of the facility. For those documents, it was not possible to determine whether the information contained in those documents is true or complete. Nonetheless, I have no reason to believe that those documents contain information which is not true and complete.

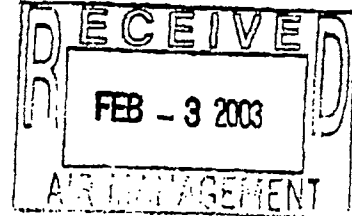
My certification is based upon the interpretations and assumptions employed in responding to U.S. EPA's request, as set forth in our response.

  
\_\_\_\_\_  
Kristine Krause  
Vice-President - Environmental  
Wisconsin Electric Power Company



**we energies**231 W. Michigan St.  
Milwaukee, WI 53290-0001  
www.we-energies.com

January 30, 2003

**VIA FEDERAL EXPRESS**Attn: Compliance Tracker, AE-17J  
Air Enforcement and Compliance Assurance Branch  
U.S. Environmental Protection Agency, Region V  
77 West Jackson Boulevard  
Chicago, Illinois 60604**Re: Request for Information from the Wisconsin Electric Power Company Pursuant to Section 114 of the Clean Air Act**

Dear Sir or Madam:

The purpose of this letter and the enclosed documents is to respond to Steve Rothblatt's letter, dated December 11, 2002, requesting certain information pursuant to Section 114 of the Clean Air Act concerning Wisconsin Electric Power Company's d/b/a We Energies ("We Energies" or the "Company's") coal-fired power plants (the "Information Request"). We Energies received this Information Request via facsimile on December 11, 2002. This Information Request included 19 questions, and an additional request that We Energies supplement its response to the United States Environmental Protection Agency's ("U.S. EPA's" or the "Agency's") initial request for information, dated December 7, 2000 (the "Initial Information Request") with certain information concerning operations at its Port Washington facility before September 9, 1990, which We Energies did not believe was initially requested.

Pursuant the Information Request, We Energies was required to supplement its response to the Initial Information Request with regard to Port Washington and to respond to Questions 1-4 of the Information Request by January 10, 2003. Responses to the remaining questions were to be submitted by February 9, 2003. On December 17, 2002, We Energies requested and received an extension of the deadline for responding to this first portion of the request until January 31, 2003, and an extension of the deadline to respond to the second portion of the request until February 28, 2003. Subsequently, We Energies requested and received an additional extension until February 28, 2001 to respond to Question 1 of the Information Request and to supplement its response to the Initial Information Request with regard to Port Washington. When requesting this additional extension, We Energies indicated that it would respond to Questions 12-18 of the Information Request by January 31, 2003. Accordingly, this letter and the attached documents respond to Questions 2-4 and 12-18 of the Information Request.

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### General Objections

While We Energies has made a good faith effort to respond to the Information Request, We Energies has several objections to both the form and content of the Information Request.

We Energies objects to the Information Request on the grounds that it is overly broad and unduly burdensome; it seeks information for an unreasonably long time - well beyond most recordkeeping requirements implemented under the Clean Air Act; it is vague and ambiguous; and it requires legal conclusions to be made in response to it. We Energies also objects to the Information Request on the grounds that it exceeds U.S. EPA's authority under § 114(a) of the Clean Air Act and to the extent that it attempts to create a duty to supplement this response with additional information, an attempt that also exceeds the Agency's authority under § 114(a).

We Energies also objects to the Information Request to the extent that it requests information that is subject to attorney-client privilege or other applicable privilege, or that constitutes attorney work product or is otherwise not discoverable.

To the extent that the questions are vague, ambiguous, overly broad, or otherwise exceed U.S. EPA's authority under § 114(a), We Energies has made appropriate and reasonable efforts to respond to the questions to the best of its ability, and it has reasonably interpreted the questions. These interpretations are discussed further below. Certain information provided in response to the Information Request is "confidential business information", as defined by 40 CFR Part 2, Subpart B. We Energies has marked these documents as confidential in accordance with 40 CFR Part 2, Subpart B.

Subject to and without waiving these general objections, We Energies responds as follows to the Information Request.

### Scope of We Energies' Response

This response contains information responsive to Questions 2-4 and 12-18 set forth in Appendix A to the Information Request with regard to We Energies' Oak Creek, Pleasant Prairie, Port Washington, Valley, and Presque Isle facilities, as requested in the first paragraph of the Information Request.

We Energies has made its best efforts to compile information responsive to U.S. EPA's Information Request. The Information Request, however, is vague and ambiguous to the extent that it does not specify the units at the Oak Creek, Pleasant Prairie, Port Washington, Valley, and Presque Isle facilities for which information is requested. We Energies has interpreted this

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request to apply only to those units at the facilities that were capable of being operated in December 2000.<sup>1</sup>

As noted in We Energies' response to the Initial Information Request, it acquired the Presque Isle facility on December 31, 1987, and therefore, has maintained records for that facility only since January 1988. We Energies has discovered certain records at the plant that were maintained by its prior owner. To the extent that such historic records were reasonably responsive to the Questions 2-4 and 12-18 of the Information Request, We Energies has included them with its response. We Energies, however, cannot and does not certify to the accuracy or completeness of these records. We Energies also does not accept responsibility for any actions taken at the Presque Isle facility before the Company acquired it.

We Energies has made a diligent, good faith effort to provide U.S. EPA with the documents and information that could reasonably be collected and produced in response to Questions 2-4 and 12-18 during the time-frame allotted for this response. We Energies has determined that it has a substantial portion of the information requested, but given the breadth of the Information Request, which dates back over 25 years, We Energies has determined that certain information is not available. To the extent that We Energies could not locate information, the Company has so noted in its responses to individual questions.

In responding to the Information Request, We Energies has made a good faith effort to provide information to U.S. EPA in the format requested. We Energies, however, was not able to condense all the information requested into concise responses. In certain instances, We Energies has produced existing documents which contain portions of the information requested by the Agency. These instances are also noted in the responses to individual questions. For reference purposes, the pages of all documents produced have been Bates-stamped.

#### Responses to the Questions 2-4 and 12 -18 in Appendix A

**Question 2:** In WEPCO's previous response, the GADS datasheet contains a column entitled "cause code", please provide a list of cause codes and their significance or meaning.

We Energies objects to Question 2 on the grounds that it is vague and ambiguous. We Energies further objects to this question to the extent that it exceeds U.S. EPA's authority under § 114(a) of the Clean Air Act. Subject to and without waiving these objections, We Energies has attached a document listing the cause codes applicable to We Energies' coal-fired units at Oak Creek, Pleasant Prairie, Port Washington, Valley, and Presque Isle. We Energies believes that these cause codes are self explanatory.

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<sup>1</sup> We Energies directs U.S. EPA to its response to Question 1 of the Initial Information Request for information on certain boilers at Oak Creek and Port Washington that have been retired. In addition Unit 4 at the Port Washington plant was taken out of service on October 14, 2002.

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We Energies further notes that this list of cause codes was taken from the GADS Data Reporting Instructions prepared by the North American Electric Reliability Council ("NERC"). This document is publicly available from NERC. Since this document was not prepared by the Company, it cannot certify to its accuracy or completeness.

**Question 3: Organizational Charts (plant and company) showing all managers, supervisors, team leaders, etc. (current/1995/1990/1985/1980/1975):**

- a. Names
- b. Phone numbers
- c. Department
- d. Branches
- e. Divisions
- f. Sections

We Energies objects to Question 3 because it is vague, ambiguous, unduly burdensome, requires We Energies to obtain information for an unreasonably long period of time, and exceeds the scope of U.S. EPA's authority under § 114(a) of the Clean Air Act. Subject to and without waiving these objections, We Energies has made its best efforts to respond to this question.

We Energies notes that this question is vague and ambiguous to the extent that it does not define the terms: "Organizational Charts", "Department", "Branches", "Divisions", and "Sections". We Energies further notes that it is vague, ambiguous and overly broad in that it requests Organizational Charts showing "all managers, supervisors, team leaders, etc.," regardless of the relationship of the position to the operation of the units covered by this request. We Energies has made its best efforts to interpret these ambiguities.

We Energies has interpreted the term "Organizational Charts" to mean the corporate organizational charts prepared by the Company from time to time outlining the Company's organizational structure and listing individuals working in specifically outlined positions. We Energies did not interpret this question to require the creation of charts not otherwise maintained by the Company.

We Energies further notes that the information request is ambiguous in that it did not define the terms used. Therefore, We Energies has further interpreted the terms "Department", "Branches", "Divisions", and "Sections" to mean the manner in which the Company has designated positions within its organization. The Organizational Charts do not necessarily reflect the specific categories listed above. The charts do, however, provide information concerning We Energies' corporate structure.

With regard to the scope of this request, We Energies interpreted this question to request information concerning senior management and those managerial positions related to the operation of the units covered by this request.

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The Organizational Charts maintained by We Energies contain a listing of senior and managerial positions by department and the names of those individuals occupying the position at the time of the chart. These charts include information responsive to U.S. EPA's request for plant and company organizational charts. In certain instances, these charts further specify sections within a specific department. These charts do not contain telephone numbers.

This Information Request directed We Energies to provide U.S. EPA with a copy of the current Organizational Chart as well as copies of the charts for 1995, 1990, 1985, 1980, and 1975. We Energies has attached Organizational Charts for the following years: 2003 (current), 1990 and 1985. We Energies has also included an organizational chart for the Environmental Department, for 1980, a year for which a corporate organizational chart could not be located.

While it has conducted a diligent search of its records, We Energies has not been able to locate Organizational Charts for the Company for the years 1995, 1980 or 1975. The Company is continuing its search for records responsive to this question. If Organizational Charts for the years 1995, 1980, and 1975 are located, the Company will include these documents in its February 2003 response.

We Energies notes that the format for the current organizational chart differs from the format of the Organizational Charts for 1990 and 1985 in that the chart does not set forth positions and departments in a single spreadsheet. For 2003, We Energies, therefore, has provided U.S. EPA with those portions of the Organizational Chart setting forth senior management and the individuals in Fossil Operations and the Environmental Department.

**Question 4: Boiler cross-sectional diagrams: (a) at the time of commissioning and (b) current.**

We Energies objects to Question 4 because it is unduly burdensome, overly broad, vague, and ambiguous. We Energies further objects to this question to the extent that it exceeds U.S. EPA's authority under § 114(a) of the Clean Air Act and because it requires the Company to provide information that, in some instances, is over 60 years old. Subject to and without waiving these objections, We Energies has made its best efforts to respond to this question. We Energies notes that this question is vague and ambiguous to the extent that it does not define the terms "boiler" and "at the time of commissioning". We Energies has made its best efforts to interpret these ambiguous terms.

First, We Energies has interpreted the term "boiler" consistent with the definition of boiler contained in 40 CFR § 97.2, which defines "boiler" as "an enclosed fossil or other fuel-fired combustion device used to produce heat and to transfer heat to recirculating water, steam or other medium." While We Energies is not subject to the requirements of 40 CFR Part 97, the Company believes that use of this federal definition of "boiler" is appropriate.

Second, We Energies has interpreted the term "at the time of commissioning" to mean the date on which the boiler commenced commercial operation.

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We Energies has attached the requested cross-sectional diagrams for the boilers. In certain instances a single diagram has been supplied for a boiler because the boiler's configuration has not changed. Additionally, the four boilers at the Valley Power Plant were identical at the time of commissioning, and their configuration has not changed. Accordingly, We Energies has provided a single cross sectional diagram that is representative of all four boilers. With regard to the boilers at Port Washington, We Energies has provided cross sectional diagrams of the boilers at the time of commissioning. The cross sectional diagrams of the boilers have not been updated. We Energies, however, has provided engineering design drawings which represent changes to the boilers after the time of commissioning.

Please note that the attached cross sectional diagrams contain information which is proprietary to the boiler manufacturers. We Energies is in the process of contacting these manufacturers with regard to the confidentiality of these diagrams. Pending responses from the boiler manufacturers, We Energies has designated these documents as Confidential Business Information in accordance with 40 CFR Part 2, Subpart B, and has appropriately marked these documents.

***Question 12: Flue gas recirculation (FGR) changes/dates***

This Question is not applicable. We Energies does not employ flue gas recirculation technology at any of the plants subject to this Information Request.

***Question 13: Dates of low-NOx burner (LNB) retrofits***

We Energies objects to this question to the extent that it is vague and ambiguous. We Energies further objects to this question to the extent that this information has already been provided to U.S. EPA in response to the Initial Information Request. Subject to and without waiving these objections, We Energies has made its best efforts to respond to this question.

We Energies notes that this question is vague and ambiguous in that it does not specify the type of "dates" for which U.S. EPA is seeking information on the low-NOx burner retrofits. Additionally, the question is vague and ambiguous because it does not define the term "retrofits". We Energies has made its best efforts to interpret these ambiguities.

First, We Energies has interpreted the reference to "dates" in this question to refer to the in-service date for any low-NOx burner technology installed at its plants. Second, We Energies has defined the term "retrofit" to refer to the installation of new pollution control equipment on an existing unit or the addition of parts to an existing pollution control device.

We Energies has attached a table containing the in-service dates for low-NOx burners installed at the plants subject to this Information Request. Information concerning the majority of these low-NOx burner projects was included in We Energies' response to Question 3 from the Initial Information Request. In response to Question 3 of the Initial Request, We Energies provided in-service dates for the listed low-NOx burner projects based upon records using capital accounting procedures. Upon further review of available work order records, We Energies

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determined, that in certain instances, the accounting records contained different in-service dates than the work order records. Where there was a difference between the in-service dates, We Energies has elected to use the in-service date from the work order records; therefore, the chart attached in response to this question reflects the in-service date contained in the work order records.<sup>2</sup>

*Question 14: Balanced draft conversion dates*

We Energies objects to this question to the extent that it is vague and ambiguous. We Energies further objects to this question to the extent that this information has already been provided to U.S. EPA in response to the Initial Information Request. Subject to and without waiving these objections, We Energies has made its best efforts to respond to this question. We Energies notes that this question is vague and ambiguous in that it does not specify the type of "dates" for which U.S. EPA is seeking information on balanced draft conversions. We Energies has made its best efforts to interpret this ambiguity.

We Energies has interpreted the reference to "dates" in this question to refer to the in-service date for any balanced draft conversion.

We Energies has attached a table containing the in-service dates for balanced draft conversions completed on the plants subject to this Information Request. This same information was included in We Energies' response to Question 3 from the Initial Information Request.

*Question 15: Dates of scrubber retrofits or SCR retrofits*

We Energies objects to this question to the extent that it is vague and ambiguous. We Energies further objects to this question to the extent that this information has already been provided to U.S. EPA in response to the Initial Information Request. Subject to and without waiving these objections, We Energies has made its best efforts to respond to this question. We Energies notes that this question is vague and ambiguous in that it does not specify the type of "dates" for which U.S. EPA is seeking information on scrubber and SCR retrofits. Additionally, the question is vague and ambiguous because it does not define the terms: "scrubber", "SCR", and "retrofits". We Energies has made its best efforts to interpret these ambiguities.

First, We Energies has interpreted the reference to "dates" in this question to refer to the in-service date for the requested project. Second, We Energies interprets the term "scrubber" to refer to Flue Gas Desulfurization systems ("FGDs") and the term "SCR" to refer to Selective Catalytic Reduction. Third, We Energies has interpreted the term "retrofit" to refer to the installation of new pollution control equipment on an existing unit or the addition of parts to an existing pollution control device.

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<sup>2</sup> We Energies response to Question 1 of the Information Request, which will be submitted by February 28, 2003, will also reflect the in-service dates contained in the work order records.

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We Energies does not employ FGDs at any of its plants. We Energies has attached a table containing the in-service dates for SCR retrofits at the plants subject to this Information Request.

***Question 16: Dates of ESP or baghouse retrofits***

We Energies objects to this question to the extent that it is vague and ambiguous. We Energies further objects to this question to the extent that this information has already been provided to U.S. EPA in response to the Initial Information Request. Subject to and without waiving these objections, We Energies has made its best efforts to respond to this question. We Energies notes that this question is vague and ambiguous in that it does not specify the type of "dates" for which U.S. EPA is seeking information on ESP or baghouse retrofits. Additionally, the question is vague and ambiguous because it does not define the terms "ESP" and "retrofits". We Energies has made its best efforts to interpret these ambiguities.

First, We Energies has interpreted the reference to "dates" in this question to refer to the in-service date for any ESP or baghouse retrofits. Second, We Energies has interpreted the term "ESP" to refer to electrostatic precipitators. Third, We Energies has interpreted the term "retrofit" to refer to the installation of new pollution control equipment on an existing unit or the addition of new parts to an existing pollution control device.

We Energies has attached a table containing the in-service dates for ESP or baghouse retrofits at the plants subject to this Information Request. Information concerning the majority of these ESP or baghouse retrofits was included in We Energies' response to Question 3 from the Initial Information Request. In response to Question 3 of the Initial Information Request, We Energies provided in-service dates for the listed ESP/baghouse projects based upon records using capital accounting procedures. Upon further review of available work order records, We Energies determined, that in certain instances, the accounting records contained different in-service dates than the work order records. Where there was a difference between the in-service dates, We Energies has elected to use the in-service date from the work order records; therefore, the chart attached in response to this question reflects the in-service date contained in the work order records.

***Question 17: Pulverizer and cyclone replacement dates***

We Energies objects to this question to the extent that it is vague and ambiguous. Subject to and without waiving these objections, We Energies has made its best efforts to respond to this question.

For purposes of this response, We Energies has interpreted the term "replacement", which is vague, ambiguous and undefined, to mean the total exchange of an entire pulverizer system or entire cyclone for new equipment. We Energies has further interpreted this term to exclude maintenance activities on these pieces of equipment that did not involve a complete exchange of the entire pulverizer system or entire cyclone.



January 30, 2003

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This Question is not applicable. We Energies has not replaced a pulverizer or cyclone at any of the plants subject to this Information Request.

***Question 18: Economizer, reheater and superheater replacement dates***

We Energies objects to this question to the extent that it is vague and ambiguous. We Energies further objects to this question to the extent that this information has already been provided to U.S. EPA in response to the Initial Information Request. Subject to and without waiving these objections, We Energies has made its best efforts to respond to this question.

We Energies notes that this question is vague and ambiguous in that it does not specify the type of "dates" for which U.S. EPA is seeking information on economizer, reheater and superheater replacements. Additionally, the question is vague and ambiguous because it does not define the terms "economizer", "reheater", "superheater" or "replacement". We Energies has made its best efforts to interpret these ambiguities.

First, We Energies has interpreted the reference to "dates" included in this question to refer to the in-service date for the requested project. Second, We Energies has interpreted "economizer replacement" to mean the total exchange of the entire economizer tube banks within the boiler enclosure with new tube banks, "reheater replacement" to mean the total exchange of the entire reheater tube banks within the boiler enclosure with new tube banks and "superheater replacement" to mean the total exchange of the entire superheater tube banks within the boiler enclosure with new tube banks. Third, We Energies has interpreted the term "replacement" to exclude maintenance activities on these pieces of equipment that did not involve a complete exchange of the economizer, reheater or superheater tube banks.

We Energies has attached a table containing the in-service dates for economizer, reheater and superheater replacements at the plants subject to this Information Request.

Information concerning the majority of these projects responsive to this question was included in We Energies' response to Question 3 from the Initial Information Request. In response to Question 3 of the Initial Request, We Energies provided in-service dates for the listed projects based upon records using capital accounting procedures. Upon further review of available work order records, We Energies determined, that in certain instances, the accounting records contained different in-service dates than the work order records. Where there was a difference between the in-service dates, We Energies has elected to use the in-service date from the work order records; therefore, the chart attached in response to this question reflects the in-service date contained in the work order records.

January 30, 2003

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Conclusion

We Energies has conducted a diligent, good faith effort to provide all information responsive to your Information Request. We Energies' production of documents, however, does not represent or act as an admission by We Energies that the contents of documents that were produced in response to the Information Request but were not prepared by We Energies for the purpose of the responding to this Information Request are true, complete, or accurate. We Energies further notes that it cannot and does not certify that the documents relating to the operation of the Presque Isle plant prior to We Energies' purchase of the plant on December 31, 1987 and documents prepared by NERC are true, complete, or accurate. Additionally, this production of documents does not act to authenticate the documents for the purposes of admissibility in any administrative or judicial proceeding.

Attached is the certification of Kristine Krause, Vice-President, Environmental, that is being submitted with this response in accordance with your Information Request. If you have any questions concerning this response, please do not hesitate to contact me at (414) 221-2712.

Sincerely,

*Susan Martin by CAF*

Susan Martin

Counsel

Wisconsin Electric Power Company

cc: Steve Rothblatt (U.S. EPA) (w/o enc.)  
Bill Bauman (WDNR) (w/enc.)  
Dean Packard (WDNR) (w/enc.)  
Jim McGarry (MDEQ) (w/enc.)  
Brian Brady (MDEQ) (w/enc.)  
Kristine Krause (w/o enc.)  
Cynthia Faur (w/o enc.)

11518354

**Wisconsin Electric Power Company  
EPA 114 Data Request  
Question 1**

| Generating Station  | Unit     | Location             | Boiler Identification Number | Commercial Operation, Yr. | Current Operating Status | Year Retired |
|---------------------|----------|----------------------|------------------------------|---------------------------|--------------------------|--------------|
| Pleasant Prairie    | 1        | Pleasant Prairie, WI | B20                          | 1980                      | In-service               |              |
|                     | 2        | Pleasant Prairie, WI | B21                          | 1985                      | In-service               |              |
| South Oak Creek     | 5        | Oak Creek, WI        | B25                          | 1959                      | In-service               |              |
|                     | 6        | Oak Creek, WI        | B26                          | 1961                      | In-service               |              |
|                     | 7        | Oak Creek, WI        | B27                          | 1965                      | In-service               |              |
|                     | 8        | Oak Creek, WI        | B28                          | 1967                      | In-service               |              |
| Valley              | Boiler 1 | Milwaukee, WI.       | B21                          | 1968                      | In-service               |              |
|                     | Boiler 2 | Milwaukee, WI.       | B22                          | 1968                      | In-service               |              |
|                     | Boiler 3 | Milwaukee, WI.       | B23                          | 1968                      | In-service               |              |
|                     | Boiler 4 | Milwaukee, WI.       | B25                          | 1969                      | In-service               |              |
| Port Washington     | 1        | Port Washington, WI  | B21                          | 1938                      | In-service               |              |
|                     | 2        | Port Washington, WI  | B22                          | 1943                      | In-service               |              |
|                     | 3        | Port Washington, WI  | B23                          | 1948                      | In-service               |              |
|                     | 4        | Port Washington, WI  | B24                          | 1949                      | In-service               |              |
|                     | 5        | Port Washington, WI  | B25                          | 1950                      | Retired (1)              | 1991         |
| Presque Isle        | 1        | Marquette, MI        | EG1                          | 1955                      | In-service               |              |
|                     | 2        | Marquette, MI        | EG2                          | 1962                      | In-service               |              |
|                     | 3        | Marquette, MI        | EG3                          | 1964                      | In-service               |              |
|                     | 4        | Marquette, MI        | EG4                          | 1966                      | In-service               |              |
|                     | 5        | Marquette, MI        | EG5                          | 1974                      | In-service               |              |
|                     | 6        | Marquette, MI        | EG6                          | 1975                      | In-service               |              |
|                     | 7        | Marquette, MI        | EG7                          | 1976                      | In-service               |              |
|                     | 8        | Marquette, MI        | EG8                          | 1978                      | In-service               |              |
|                     | 9        | Marquette, MI        | EG9                          | 1979                      | In-service               |              |
| North Oak Creek     | 1        | Oak Creek, WI        | B21                          | 1953                      | Retired                  | 1989         |
|                     | 2        | Oak Creek, WI        | B22                          | 1954                      | Retired                  | 1989         |
|                     | 3        | Oak Creek, WI        | B23                          | 1955                      | Retired                  | 1988         |
|                     | 4        | Oak Creek, WI        | B24                          | 1957                      | Retired                  | 1988         |
| Commerce Street (2) | 25       | Milwaukee, WI        |                              | 1941                      | Retired                  | 1988         |
| East Wells (2)      | 16       | Milwaukee, WI        |                              | 1938                      | Retired                  | 1979         |
| Lakeside (2)        | 19       | St Francis, WI       |                              | 1930                      | Retired                  | 1985         |
|                     | 20       | St Francis, WI       |                              | 1930                      | Retired                  | 1983         |

(1) The unit was continuously out of service since 1985 and was permanently retired in 1991.

(2) We has made a diligent, good faith effort to obtain true and complete information on these facilities. WE reserves the right to correct or supplement the information.

WEPCO 10001

1/24/2001

## Wisconsin Electric Power Company EPA 114 Data Request Question 1

**Generating Station:  
Pleasant Prairie**

|   | Unit<br>1                               | Unit<br>2                               |
|---|---|---|
| Original<br>Boiler Guaranteed<br>Heat Input Capacity,<br>Mmbtu/hr | 6153                                    | 6153                                    |
| Original Design<br>Boiler<br>Heat Input Capacity,<br>Mmbtu/hr     | 6768 to 7076                            | 6768 to 7076                            |
| Current<br>Boiler<br>Heat Input,<br>Mmbtu/Hr                      | 6449                                    | 6449                                    |
| Original Design<br>Gross<br>Generating Capacity,<br>MWg           | 725.4                                   | 725.4                                   |
| Original Design<br>Net<br>Generating Capacity,<br>MWn             | NA                                      | NA                                      |
| Current<br>Gross<br>Generating Capacity,<br>MWg                   | 655                                     | 643                                     |
| Current<br>Net<br>Generating Capacity,<br>MWn                     | 617                                     | 605                                     |
| Current Fuels   | Coal, Natural Gas, Oil                  | Coal, Natural Gas, Oil                  |
| Particulate Control<br>Year Installed                             | Electrostatic Precipitator<br>1980      | Electrostatic Precipitator<br>1985      |
| SO <sub>2</sub> Control<br>Year Installed                         | N/A (1)                                 | N/A (1)                                 |
| NO <sub>x</sub> Control<br>Year Installed                         | Low NO <sub>x</sub> Burners (2)<br>1980 | Low NO <sub>x</sub> Burners (2)<br>1985 |

(1) Units burn low sulphur sub-bituminous coal  
(2) Sub Part D - Low NO<sub>x</sub> Burners

WEPCO 10002

1/24/2001

## Wisconsin Electric Power Company EPA 114 Data Request Question 1

Generating Station:  
North Oak Creek

|   | Unit<br>1    | Unit<br>2    | Unit<br>3    | Unit<br>4    |
|---|--------------|--------------|--------------|--------------|
| Original Guaranteed<br>Boiler<br>Heat Input Capacity,<br>Mmbtu/hr | 1,094        | 1,094        | 1,129        | 1,129        |
| Original Design<br>Boiler<br>Heat Input Capacity,<br>Mmbtu/hr     | 1203 to 1266 | 1203 to 1258 | 1242 to 1298 | 1242 to 1298 |
| Current Boiler<br>Heat Input Capacity,<br>Mmbtu/hr                | RETIRED      | RETIRED      | RETIRED      | RETIRED      |
| Original Design<br>Gross<br>Generating Capacity,<br>MWg           | 163          | 163          | 153          | 153          |
| Original Design<br>Net<br>Generating Capacity,<br>MWn             | NA           | NA           | NA           | NA           |
| Current Gross<br>Generating Capacity,<br>MWg                      | RETIRED      | RETIRED      | RETIRED      | RETIRED      |
| Current Net<br>Generating Capacity,<br>MWn                        | RETIRED      | RETIRED      | RETIRED      | RETIRED      |
| Current Fuels   | RETIRED      | RETIRED      | RETIRED      | RETIRED      |
| Particulate Control   | Precipitator | Precipitator | Precipitator | Precipitator |
| Year Installed  | 1953         | 1954         | 1955         | 1957         |
| SO2 Control<br>Year Installed                                     | NA<br>NA     | NA<br>NA     | NA<br>NA     | NA<br>NA     |
| NOx Control<br>Year Installed                                     | NA<br>NA     | NA<br>NA     | NA<br>NA     | NA<br>NA     |

WEPCO 10003

1/24/2001

## Wisconsin Electric Power Company EPA 114 Data Request Question 1

**Generating Station:**

**South Oak Creek**

|   | Unit<br>5                     | Unit<br>6                     | Unit<br>7                   | Unit<br>8                   |
|---|-------------------------------|-------------------------------|-----------------------------|-----------------------------|
| <b>Original Guaranteed Boiler Heat Input Capacity, Mmbtu/hr</b> | 2,376                         | 2,376                         | 2,594                       | 2,594                       |
| <b>Original Design Boiler Heat Input Capacity, Mmbtu/hr</b>     | 2,614 to 2,732                | 2,614 to 2,733                | 2,854 to 2,983              | 2,854 to 2,984              |
| <b>Current Boiler Heat Input Capacity, Mmbtu/hr</b>             | 2,488                         | 2,516                         | 2,856                       | 3,009                       |
| <b>Original Design Gross Generating Capacity, MWg</b>           | 320                           | 320                           | 353                         | 360                         |
| <b>Original Design Net Generating Capacity, MWn</b>             | NA                            | NA                            | NA                          | NA                          |
| <b>Current Gross Generating Capacity, MWg</b>                   | 273                           | 276                           | 320                         | 336                         |
| <b>Current Net Generating Capacity, MWn</b>                     | 262                           | 265                           | 298                         | 314                         |
| <b>Current Fuels</b>  | Coal, Natural Gas, Propane    | Coal, Natural Gas, Propane    | Coal, Natural Gas, Propane  | Coal, Natural Gas, Propane  |
| <b>Particulate Control Year Installed</b>                       | Precipitator<br>1972 (1)      | Precipitator<br>1972 (1)      | Precipitator<br>1992        | Precipitator<br>1991        |
| <b>SO2 Control</b>  | NA                            | NA                            | NA                          | NA                          |
| <b>NOx Control Year Installed</b>                               | Staged Combustion (2)<br>1969 | Staged Combustion (2)<br>1961 | Low Nox Burners (3)<br>1994 | Low Nox Burners (3)<br>1995 |

(1) Major precipitator upgrades completed on units 5&6 in 1991 and 1990 respectively

(2) Down fired burner configuration produces 0.15 to 0.25 lb/Mbtu NOx

(3) Foster Wheeler TLN Burners

## Wisconsin Electric Power Company EPA 114 Data Request Question 1

Generating Station:

| Valley (1)   | UNIT 1   |  |           | UNIT 2                                   |  | Turbine 2 |
|--|--|--|-----------|--|--|-----------|
|  | Boiler 1   | Boiler 2                                 | Turbine 1 | Boiler 3                                 | Boiler 4                                 |           |
| Original Boiler Guaranteed Heat Input Capacity, Mmbtu/hr | 796  | 796                                      |           | 796                                      | 796                                      |           |
| Original Design Boiler Heat Input Capacity, Mmbtu/hr     | 876 to 916                                       | 876 to 916                               |           | 876 to 916                               | 876 to 916                               |           |
| Current Boiler Heat Input Capacity, Mmbtu/hr             | 868  | 868                                      |           | 868                                      | 868                                      |           |
| Original Design Gross Generating Capacity, MWg           |  |  | 160       |  |  | 160       |
| Original Design Net Generating Capacity, MWn             |  |  | N.A.      |  |  | N.A.      |
| Current Gross Generating Capacity, MWg                   |  |  | 161       |  |  | 161       |
| Current Net Generating Capacity, MWn                     |  |  | 140       |  |  | 140       |
| Current Fuels  | coal<br>petroleum coke<br>natural gas<br>propane | coal<br>petroleum coke<br>gas<br>propane |           | coal<br>petroleum coke<br>gas<br>propane | coal<br>petroleum coke<br>gas<br>propane |           |
| Particulate Control Year Installed                       | Baghouse 1994                                    | Baghouse 1994                            |           | Baghouse 1995                            | Baghouse 1995                            |           |
| SO2 Control  | N/A  | N/A                                      |           | N/A                                      | N/A                                      |           |
| NOx Control Year Installed                               | Low NOx Burners 1994                             | Low NOx Burners 1994                     |           | Low NOx Burners 1995                     | Low NOx Burners 1995                     |           |

(1) Valley Power Plant is a header plant consisting of four boilers and two turbines. Boilers 1&2 and turbine 1 are considered unit 1, boilers 3&4 and turbine 2 are considered unit 2. The units are interconnected allowing steam generated in unit 1 to flow to unit 2 and vice versa.

## Wisconsin Electric Power Company EPA 114 Data Request Question 1

Generating Station:

Port Washington

|   | Unit<br>1                        | Unit<br>2                        | Unit<br>3                        | Unit<br>4                        | Unit<br>5  |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|------------|
| Original<br>Boiler Guaranteed<br>Heat Input Capacity,<br>Mmbtu/hr | 879                              | 884                              | 873                              | 862                              | 785        |
| Original Design<br>Boiler<br>Heat Input Capacity,<br>Mmbtu/hr     | 987 to 1011                      | 972 to 1017                      | 960 to 1004                      | 948 to 991                       | 875 to 914 |
| Current<br>Boiler<br>Heat Input Capacity,<br>Mmbtu/hr             | 986                              | 987                              | 987                              | 987                              | Retired    |
| Original Design<br>Gross<br>Generating Capacity,<br>MWg           | 100                              | 100                              | 100                              | 100                              | 100        |
| Original Design<br>Net<br>Generating Capacity,<br>MWn             | NA                               | NA                               | NA                               | NA                               | NA         |
| Current<br>Gross<br>Generating Capacity,<br>MWg                   | 85                               | 85                               | 85                               | 85                               | Retired    |
| Current<br>Net<br>Generating Capacity,<br>MWn                     | 80                               | 80                               | 80                               | 80                               | Retired    |
| Current Fuels   | coal<br>propane                  | coal<br>propane                  | coal<br>propane                  | coal<br>propane                  |            |
| Particulate Control<br>Year Installed                             | Precipitator<br>1993             | Precipitator<br>1993             | Precipitator<br>1992             | Precipitator<br>1994             |            |
| SO <sub>2</sub> Control<br>Year Installed                         | Sorbent<br>injection<br>1993     | N/A                              | N/A                              | Sorbent<br>injection<br>1994     |            |
| NO <sub>x</sub> Control<br>Year Installed                         | Staged<br>Combustion (1)<br>1936 | Staged<br>Combustion (1)<br>1943 | Staged<br>Combustion (1)<br>1948 | Staged<br>Combustion (1)<br>1949 |            |

(1) Down fired burner configuration produces 0.25 to 0.35 lb/Mbtu NO<sub>x</sub>



# Wisconsin Electric Power Company EPA 114 Data Request

Generating Station:

## Question 1

Presque Isle 1-4

|   | Unit<br>1                     | Unit<br>2                     | Unit<br>3                     | Unit<br>4                     |
|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Original Boiler Guaranteed Heat Input Capacity Mmbtu/hr | 291                           | 416                           | 657                           | 657                           |
| Original Design Boiler Heat Input Capacity Mmbtu/hr     | 320 to 335                    | 458 to 478                    | 613 to 641                    | 613 to 641                    |
| Current Boiler Heat Input Capacity Mmbtu/hr             | 308                           | 463                           | 637                           | 637                           |
| Original Design Gross Generating Capacity, MWg          | 29.4                          | 44                            | 64                            | 68                            |
| Original Design Net Generating Capacity, MWn            | NA                            | NA                            | NA                            | NA                            |
| Current Gross Generating Capacity, MWg                  | 26.3                          | 38.7                          | 60.5                          | 60.6                          |
| Current Net Generating Capacity, MWn                    | 26                            | 37                            | 58                            | 68                            |
| Current Fuels   | Coal<br>Petroleum coke<br>Oil | Coal<br>Petroleum coke<br>Oil | Coal<br>Petroleum coke<br>Oil | Coal<br>Petroleum coke<br>Oil |
| Particulate Control Year Installed                      | Baghouse<br>1999              | Baghouse<br>1999              | Baghouse<br>1999              | Baghouse<br>1999              |
| SO2 Control Year Effective                              | < 1.0% Sulfur Coal<br>1978    | < 1.0% Sulfur Coal<br>1978    | < 1.0% Sulfur Coal<br>1978    | < 1.0% Sulfur Coal<br>1978    |
| NOx Control Year Installed                              | None                          | None                          | None                          | None                          |

## Wisconsin Electric Power Company EPA 114 Data Request Question 1

Generating Station:

Presque Isle 5-9

|  | Unit 5                        | Unit 6                        | Unit 7                 | Unit 8                 | Unit 9                 |
|--|-------------------------------|-------------------------------|------------------------|------------------------|------------------------|
| Original Boiler Guaranteed Heat Input Capacity, Mmbtu/hr | 850                           | 850                           | 874                    | 874                    | 874                    |
| Original Design Boiler Heat Input Capacity, Mmbtu/hr     | 935 to 978                    | 935 to 978                    | 961 to 1005            | 961 to 1005            | 961 to 1005            |
| Current Boiler Heat Input Capacity, Mmbtu/hr             | 995                           | 995                           | 1010                   | 1010                   | 1010                   |
| Original Design Gross Generating Capacity, MWg           | 100                           | 100                           | 100                    | 100                    | 100                    |
| Original Design Net Generating Capacity, MWn             | NA                            | NA                            | NA                     | NA                     | NA                     |
| Current Gross Generating Capacity, MWg                   | 93                            | 93                            | 94                     | 94                     | 94                     |
| Current Net Generating Capacity, MWn                     | 88                            | 88                            | 88                     | 88                     | 88                     |
| Current Fuels  | Coal<br>Petroleum coke<br>Oil | Coal<br>Petroleum coke<br>Oil | Coal<br>Oil            | Coal<br>Oil            | Coal<br>Oil            |
| Particulate Control Year Installed                       | Precipitator<br>1974          | Precipitator<br>1975          | Precipitator<br>1978   | Precipitator<br>1978   | Precipitator<br>1979   |
| SO2 Control Year Effective                               | < 1.0% Sulfur Coal<br>1978    | < 1.0% Sulfur Coal<br>1978    | N/A (1)                | N/A (1)                | N/A (1)                |
| NOx Control  | None                          | None                          | Low NOx<br>Burners (2) | Low NOx<br>Burners (2) | Low NOx<br>Burners (2) |
| Year Installed   |                               |                               | 1978                   | 1978                   | 1979                   |

(1) Units burn low sulphur sub-bituminous coal  
(2) Sub Part D - Low NOx Burners

**Question 2**  
**Supplemental Heat Rate and Generation Information**

| Unit | Month-Year | Monthly                 |                      |                        | Yearly                  |                      |                        |
|------|------------|-------------------------|----------------------|------------------------|-------------------------|----------------------|------------------------|
|      |            | Net Heat Rate (BTU/KWH) | Net Generation (MWH) | Gross Generation (MWH) | Net Heat Rate (BTU/KWH) | Net Generation (MWH) | Gross Generation (MWH) |
| OC1  | Jan-86     | 10,458                  | 33,834               | 38,508                 |                         |                      |                        |
| OC1  | Feb-86     | 13,227                  | 21,335               | 23,087                 |                         |                      |                        |
| OC1  | Mar-86     | 0                       | 0                    | 0                      |                         |                      |                        |
| OC1  | Apr-86     | 11,071                  | 4,052                | 4,652                  |                         |                      |                        |
| OC1  | May-86     | 9,828                   | 21,220               | 22,893                 |                         |                      |                        |
| OC1  | Jun-86     | 10,871                  | 42,152               | 45,382                 |                         |                      |                        |
| OC1  | Jul-86     | 11,161                  | 32,922               | 35,513                 |                         |                      |                        |
| OC1  | Aug-86     | 11,139                  | 37,144               | 40,180                 |                         |                      |                        |
| OC1  | Sep-86     | 10,338                  | 48,548               | 52,206                 |                         |                      |                        |
| OC1  | Oct-86     | 11,251                  | 48,007               | 51,616                 |                         |                      |                        |
| OC1  | Nov-86     | 10,129                  | 27,808               | 30,104                 |                         |                      |                        |
| OC1  | Dec-86     | 11,513                  | 17,720               | 19,332                 | 10,924                  | 334,542              | 361,473                |
| OC1  | Jan-87     | 11,863                  | 25,869               | 28,229                 |                         |                      |                        |
| OC1  | Feb-87     | 10,520                  | 48,233               | 51,772                 |                         |                      |                        |
| OC1  | Mar-87     | 10,860                  | 28,012               | 30,161                 |                         |                      |                        |
| OC1  | Apr-87     | 12,951                  | 22,199               | 23,939                 |                         |                      |                        |
| OC1  | May-87     | 9,550                   | 49,103               | 52,439                 |                         |                      |                        |
| OC1  | Jun-87     | 10,699                  | 49,991               | 53,541                 |                         |                      |                        |
| OC1  | Jul-87     | 10,746                  | 38,161               | 41,033                 |                         |                      |                        |
| OC1  | Aug-87     | 11,099                  | 32,669               | 35,230                 |                         |                      |                        |
| OC1  | Sep-87     | 11,494                  | 26,780               | 28,920                 |                         |                      |                        |
| OC1  | Oct-87     | 10,616                  | 38,883               | 41,596                 |                         |                      |                        |
| OC1  | Nov-87     | 10,790                  | 40,524               | 43,403                 |                         |                      |                        |
| OC1  | Dec-87     | 10,922                  | 49,861               | 53,364                 | 10,836                  | 450,105              | 483,624                |
| OC1  | Jan-88     | 10,680                  | 14,756               | 16,378                 |                         |                      |                        |
| OC1  | Feb-88     | 0                       | 0                    | 0                      |                         |                      |                        |
| OC1  | Mar-88     | 0                       | 0                    | 0                      |                         |                      |                        |
| OC1  | Apr-88     | 0                       | 0                    | 0                      |                         |                      |                        |
| OC1  | May-88     | 21,158                  | 2,992                | 4,394                  |                         |                      |                        |
| OC1  | Jun-88     | 11,569                  | 37,127               | 40,265                 |                         |                      |                        |
| OC1  | Jul-88     | 11,385                  | 40,404               | 43,894                 |                         |                      |                        |
| OC1  | Aug-88     | 10,203                  | 28,868               | 31,673                 |                         |                      |                        |
| OC1  | Sep-88     | 14,857                  | 13,856               | 15,690                 |                         |                      |                        |
| OC1  | Oct-88     | 11,900                  | 23,553               | 26,174                 |                         |                      |                        |
| OC1  | Nov-88     | 11,782                  | 29,353               | 32,287                 |                         |                      |                        |
| OC1  | Dec-88     | 11,523                  | 48,240               | 52,070                 | 11,678                  | 239,149              | 262,805                |
| OC1  | Jan-89     | 12,340                  | 14,090               | 16,282                 |                         |                      |                        |
| OC1  | Aug-89     | 12,825                  | 8,063                | 9,581                  |                         |                      |                        |
| OC1  | Sep-89     | 11,547                  | 33,245               | 36,438                 |                         |                      |                        |
| OC1  | Oct-89     | 11,566                  | 39,360               | 42,794                 |                         |                      |                        |
| OC1  | Nov-89     | 11,610                  | 35,567               | 38,613                 |                         |                      |                        |
| OC2  | Jan-86     | 11,213                  | 39,527               | 42,447                 |                         |                      |                        |
| OC2  | Feb-86     | 11,384                  | 35,336               | 38,137                 |                         |                      |                        |
| OC2  | Mar-86     | 13,839                  | 39,511               | 42,719                 |                         |                      |                        |
| OC2  | Apr-86     | 10,853                  | 47,651               | 51,262                 |                         |                      |                        |
| OC2  | May-86     | 11,782                  | 29,595               | 32,205                 |                         |                      |                        |
| OC2  | Jun-86     | 30,140                  | 864                  | 1,279                  |                         |                      |                        |
| OC2  | Jul-86     | 11,660                  | 23,737               | 25,869                 |                         |                      |                        |
| OC2  | Aug-86     | 11,761                  | 16,075               | 17,535                 |                         |                      |                        |
| OC2  | Sep-86     | 11,082                  | 45,105               | 48,678                 |                         |                      |                        |
| OC2  | Oct-86     | 11,264                  | 24,758               | 27,115                 |                         |                      |                        |

**Question 2**  
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|     |        |        |        |        |        |         |         |
|-----|--------|--------|--------|--------|--------|---------|---------|
| OC2 | Nov-86 | 12,404 | 34,338 | 37,425 |        |         |         |
| OC2 | Dec-86 | 11,556 | 33,769 | 36,807 | 11,713 | 370,268 | 401,476 |
| OC2 | Jan-87 | 12,219 | 17,705 | 19,841 |        |         |         |
| OC2 | Feb-87 | 11,724 | 27,731 | 30,245 |        |         |         |
| OC2 | Mar-87 | 10,936 | 41,982 | 45,301 |        |         |         |
| OC2 | Apr-87 | 12,997 | 35,607 | 38,654 |        |         |         |
| OC2 | May-87 | 11,142 | 34,592 | 37,454 |        |         |         |
| OC2 | Jun-87 | 11,132 | 37,151 | 40,256 |        |         |         |
| OC2 | Jul-87 | 11,528 | 25,637 | 28,010 |        |         |         |
| OC2 | Aug-87 | 11,906 | 18,336 | 20,129 |        |         |         |
| OC2 | Sep-87 | 11,657 | 16,922 | 18,547 |        |         |         |
| OC2 | Oct-87 | 13,218 | 8,626  | 9,588  |        |         |         |
| OC2 | Nov-87 | 11,190 | 29,508 | 31,927 |        |         |         |
| OC2 | Dec-87 | 11,291 | 6,228  | 6,765  | 11,626 | 300,021 | 326,497 |
| OC2 | Jan-88 | 12,565 | 30,088 | 33,135 |        |         |         |
| OC2 | Feb-88 | 11,387 | 37,689 | 40,905 |        |         |         |
| OC2 | Mar-88 | 11,780 | 39,451 | 42,603 |        |         |         |
| OC2 | Apr-88 | 11,876 | 28,554 | 31,147 |        |         |         |
| OC2 | May-88 | 11,191 | 32,961 | 35,880 |        |         |         |
| OC2 | Jun-88 | 13,530 | 14,368 | 16,580 |        |         |         |
| OC2 | Jul-88 | 11,983 | 17,440 | 19,554 |        |         |         |
| OC2 | Aug-88 | 11,067 | 30,267 | 33,043 |        |         |         |
| OC2 | Sep-88 | 17,103 | 13,524 | 15,052 |        |         |         |
| OC2 | Oct-88 | 10,730 | 17,783 | 19,689 |        |         |         |
| OC2 | Nov-88 | 0      | 0      | 0      |        |         |         |
| OC2 | Dec-88 | 17,134 | 1,696  | 2,979  | 12,014 | 263,721 | 290,569 |
| OC2 | Jan-89 | 13,044 | 11,331 | 13,080 |        |         |         |
| OC2 | Aug-89 | 12,782 | 8,721  | 9,910  |        |         |         |
| OC2 | Sep-89 | 11,806 | 18,822 | 21,099 |        |         |         |
| OC2 | Oct-89 | 39,459 | 1,143  | 2,155  |        |         |         |
| OC2 | Nov-89 | 0      | 0      | 0      |        |         |         |
| OC3 | Jan-86 | 9,604  | 59,137 | 63,304 |        |         |         |
| OC3 | Feb-86 | 13,961 | 28,155 | 30,517 |        |         |         |
| OC3 | Mar-86 | 11,718 | 23,207 | 25,436 |        |         |         |
| OC3 | Apr-86 | 0      | 0      | 0      |        |         |         |
| OC3 | May-86 | 0      | 0      | 0      |        |         |         |
| OC3 | Jun-86 | 0      | 0      | 0      |        |         |         |
| OC3 | Jul-86 | 0      | 0      | 0      |        |         |         |
| OC3 | Aug-86 | 0      | 0      | 0      |        |         |         |
| OC3 | Sep-86 | 0      | 0      | 0      |        |         |         |
| OC3 | Oct-86 | 0      | 0      | 0      |        |         |         |
| OC3 | Nov-86 | 0      | 0      | 0      |        |         |         |
| OC3 | Dec-86 | 0      | 0      | 0      | 11,158 | 110,499 | 119,257 |
| OC3 | Jan-87 | 0      | 0      | 0      |        |         |         |
| OC3 | Feb-87 | 0      | 0      | 0      |        |         |         |
| OC3 | Mar-87 | 0      | 0      | 0      |        |         |         |
| OC3 | Apr-87 | 0      | 0      | 0      |        |         |         |
| OC3 | May-87 | 0      | 0      | 0      |        |         |         |
| OC3 | Jun-87 | 0      | 0      | 0      |        |         |         |
| OC3 | Jul-87 | 0      | 0      | 0      |        |         |         |
| OC3 | Aug-87 | 0      | 0      | 0      |        |         |         |
| OC3 | Sep-87 | 0      | 0      | 0      |        |         |         |
| OC3 | Oct-87 | 0      | 0      | 0      |        |         |         |
| OC3 | Nov-87 | 0      | 0      | 0      |        |         |         |
| OC3 | Dec-87 | 0      | 0      | 0      | 0      | 0       | 0       |

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|     |        |        |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|--------|--------|
| OC3 | Jan-88 | 0      | 0      | 0      |        |        |        |
| OC3 | Feb-88 | 0      | 0      | 0      |        |        |        |
| OC3 | Mar-88 | 0      | 0      | 0      |        |        |        |
| OC3 | Apr-88 | 0      | 0      | 0      |        |        |        |
| OC3 | May-88 | 0      | 0      | 0      |        |        |        |
| OC3 | Jun-88 | 0      | 0      | 0      |        |        |        |
| OC3 | Jul-88 | 0      | 0      | 0      |        |        |        |
| OC3 | Aug-88 | 0      | 0      | 0      |        |        |        |
| OC3 | Sep-88 | 0      | 0      | 0      |        |        |        |
| OC3 | Oct-88 | 0      | 0      | 0      |        |        |        |
| OC3 | Nov-88 | 0      | 0      | 0      |        |        |        |
| OC3 | Dec-88 | 0      | 0      | 0      | 0      | 0      | 0      |
| OC3 | Jul-89 | 0      | 0      | 0      |        |        |        |
| OC3 | Aug-89 | 0      | 0      | 0      |        |        |        |
| OC3 | Sep-89 | 0      | 0      | 0      |        |        |        |
| OC3 | Oct-89 | 0      | 0      | 0      |        |        |        |
| OC3 | Nov-89 | 0      | 0      | 0      |        |        |        |
| OC4 | Jan-86 | 10,607 | 34,359 | 38,013 |        |        |        |
| OC4 | Feb-86 | 11,400 | 16,784 | 18,474 |        |        |        |
| OC4 | Mar-86 | 10,888 | 35,012 | 38,070 |        |        |        |
| OC4 | Apr-86 | 0      | 0      | 0      |        |        |        |
| OC4 | May-86 | 0      | 0      | 0      |        |        |        |
| OC4 | Jun-86 | 0      | 0      | 0      |        |        |        |
| OC4 | Jul-86 | 0      | 0      | 0      |        |        |        |
| OC4 | Aug-86 | 0      | 0      | 0      |        |        |        |
| OC4 | Sep-86 | 0      | 0      | 0      |        |        |        |
| OC4 | Oct-86 | 0      | 0      | 0      |        |        |        |
| OC4 | Nov-86 | 0      | 0      | 0      |        |        |        |
| OC4 | Dec-86 | 0      | 0      | 0      | 10,876 | 88,155 | 84,557 |
| OC4 | Jan-87 | 0      | 0      | 0      |        |        |        |
| OC4 | Feb-87 | 0      | 0      | 0      |        |        |        |
| OC4 | Mar-87 | 0      | 0      | 0      |        |        |        |
| OC4 | Apr-87 | 0      | 0      | 0      |        |        |        |
| OC4 | May-87 | 0      | 0      | 0      |        |        |        |
| OC4 | Jun-87 | 0      | 0      | 0      |        |        |        |
| OC4 | Jul-87 | 0      | 0      | 0      |        |        |        |
| OC4 | Aug-87 | 0      | 0      | 0      |        |        |        |
| OC4 | Sep-87 | 0      | 0      | 0      |        |        |        |
| OC4 | Oct-87 | 0      | 0      | 0      |        |        |        |
| OC4 | Nov-87 | 0      | 0      | 0      |        |        |        |
| OC4 | Dec-87 | 0      | 0      | 0      | 0      | 0      | 0      |
| OC4 | Jan-88 | 0      | 0      | 0      |        |        |        |
| OC4 | Feb-88 | 0      | 0      | 0      |        |        |        |
| OC4 | Mar-88 | 0      | 0      | 0      |        |        |        |
| OC4 | Apr-88 | 0      | 0      | 0      |        |        |        |
| OC4 | May-88 | 0      | 0      | 0      |        |        |        |
| OC4 | Jun-88 | 0      | 0      | 0      |        |        |        |
| OC4 | Jul-88 | 0      | 0      | 0      |        |        |        |
| OC4 | Aug-88 | 0      | 0      | 0      |        |        |        |
| OC4 | Sep-88 | 0      | 0      | 0      |        |        |        |
| OC4 | Oct-88 | 0      | 0      | 0      |        |        |        |
| OC4 | Nov-88 | 0      | 0      | 0      |        |        |        |
| OC4 | Dec-88 | 0      | 0      | 0      | 0      | 0      | 0      |
| OC4 | Jul-89 | 0      | 0      | 0      |        |        |        |
| OC4 | Aug-89 | 0      | 0      | 0      |        |        |        |

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|     |        |        |         |         |        |           |           |
|-----|--------|--------|---------|---------|--------|-----------|-----------|
| OC4 | Sep-89 | 0      | 0       | 0       |        |           |           |
| OC4 | Oct-89 | 0      | 0       | 0       |        |           |           |
| OC4 | Nov-89 | 0      | 0       | 0       |        |           |           |
| OC5 | Jan-88 | 9,607  | 72,104  | 75,586  |        |           |           |
| OC5 | Feb-88 | 10,983 | 87,282  | 91,432  |        |           |           |
| OC5 | Mar-88 | 9,832  | 89,377  | 83,884  |        |           |           |
| OC5 | Apr-88 | 10,244 | 40,996  | 44,379  |        |           |           |
| OC5 | May-88 | 12,930 | 64,857  | 69,071  |        |           |           |
| OC5 | Jun-88 | 11,002 | 69,118  | 74,379  |        |           |           |
| OC5 | Jul-88 | 12,558 | 24,655  | 27,579  |        |           |           |
| OC5 | Aug-88 | 0      | 0       | 0       |        |           |           |
| OC5 | Sep-88 | 0      | 0       | 0       |        |           |           |
| OC5 | Oct-88 | 18,887 | 16,953  | 20,222  |        |           |           |
| OC5 | Nov-88 | 10,323 | 42,750  | 48,180  |        |           |           |
| OC5 | Dec-88 | 11,852 | 52,858  | 55,937  | 11,104 | 660,960   | 598,649   |
| OC5 | Jan-87 | 10,692 | 73,993  | 77,773  |        |           |           |
| OC5 | Feb-87 | 9,908  | 59,985  | 64,007  |        |           |           |
| OC5 | Mar-87 | 10,096 | 82,818  | 87,443  |        |           |           |
| OC5 | Apr-87 | 10,697 | 29,597  | 31,470  |        |           |           |
| OC5 | May-87 | 0      | 0       | 0       |        |           |           |
| OC5 | Jun-87 | 0      | 0       | 0       |        |           |           |
| OC5 | Jul-87 | 12,445 | 27,535  | 29,920  |        |           |           |
| OC5 | Aug-87 | 10,917 | 77,544  | 82,648  |        |           |           |
| OC5 | Sep-87 | 10,123 | 98,114  | 102,980 |        |           |           |
| OC5 | Oct-87 | 10,365 | 77,316  | 81,548  |        |           |           |
| OC5 | Nov-87 | 10,121 | 100,903 | 106,262 |        |           |           |
| OC5 | Dec-87 | 10,398 | 87,441  | 92,191  | 10,419 | 715,246   | 756,240   |
| OC5 | Jan-88 | 10,872 | 88,224  | 92,030  |        |           |           |
| OC5 | Feb-88 | 9,922  | 98,151  | 100,182 |        |           |           |
| OC5 | Mar-88 | 10,308 | 105,105 | 110,347 |        |           |           |
| OC5 | Apr-88 | 10,455 | 61,745  | 64,768  |        |           |           |
| OC5 | May-88 | 10,269 | 110,211 | 114,671 |        |           |           |
| OC5 | Jun-88 | 9,633  | 111,489 | 116,718 |        |           |           |
| OC5 | Jul-88 | 10,563 | 104,308 | 110,505 |        |           |           |
| OC5 | Aug-88 | 9,524  | 98,399  | 104,046 |        |           |           |
| OC5 | Sep-88 | 12,026 | 98,172  | 103,056 |        |           |           |
| OC5 | Oct-88 | 10,084 | 103,717 | 108,229 |        |           |           |
| OC5 | Nov-88 | 10,189 | 78,918  | 83,309  |        |           |           |
| OC5 | Dec-88 | 9,783  | 63,116  | 66,643  | 10,303 | 1,119,553 | 1,175,484 |
| OC5 | Jul-89 | 10,822 | 81,346  | 85,582  |        |           |           |
| OC5 | Aug-89 | 10,093 | 98,802  | 103,699 |        |           |           |
| OC5 | Sep-89 | 10,282 | 85,166  | 89,524  |        |           |           |
| OC5 | Oct-89 | 10,171 | 59,426  | 63,067  |        |           |           |
| OC5 | Nov-89 | 9,508  | 101,855 | 106,869 |        |           |           |
| OC6 | Jan-86 | 0      | 0       | 0       |        |           |           |
| OC6 | Feb-86 | 0      | 0       | 0       |        |           |           |
| OC6 | Mar-86 | 11,324 | 37,820  | 40,013  |        |           |           |
| OC6 | Apr-86 | 10,390 | 76,416  | 81,182  |        |           |           |
| OC6 | May-86 | 8,637  | 107,614 | 112,668 |        |           |           |
| OC6 | Jun-86 | 10,505 | 62,149  | 66,385  |        |           |           |
| OC6 | Jul-86 | 10,242 | 108,232 | 113,756 |        |           |           |
| OC6 | Aug-86 | 10,190 | 67,487  | 72,017  |        |           |           |
| OC6 | Sep-86 | 10,525 | 103,313 | 108,972 |        |           |           |
| OC6 | Oct-86 | 8,971  | 107,199 | 113,147 |        |           |           |
| OC6 | Nov-86 | 10,915 | 77,297  | 82,252  |        |           |           |

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|     |        |        |         |         |        |           |           |
|-----|--------|--------|---------|---------|--------|-----------|-----------|
| OC6 | Dec-86 | 9,320  | 85,584  | 90,088  | 9,952  | 833,111   | 880,680   |
| OC6 | Jan-87 | 0      | 0       | 0       |        |           |           |
| OC6 | Feb-87 | 12,513 | 42,707  | 46,931  |        |           |           |
| OC6 | Mar-87 | 9,744  | 111,291 | 118,461 |        |           |           |
| OC6 | Apr-87 | 9,939  | 100,764 | 105,790 |        |           |           |
| OC6 | May-87 | 9,775  | 120,748 | 125,932 |        |           |           |
| OC6 | Jun-87 | 10,005 | 42,720  | 45,408  |        |           |           |
| OC6 | Jul-87 | 10,037 | 93,212  | 98,583  |        |           |           |
| OC6 | Aug-87 | 10,630 | 86,108  | 90,997  |        |           |           |
| OC6 | Sep-87 | 10,728 | 98,518  | 103,473 |        |           |           |
| OC6 | Oct-87 | 10,462 | 83,799  | 88,203  |        |           |           |
| OC6 | Nov-87 | 10,388 | 101,345 | 105,994 |        |           |           |
| OC6 | Dec-87 | 10,075 | 96,249  | 101,058 | 10,266 | 977,461   | 1,028,831 |
| OC6 | Jan-88 | 9,934  | 92,334  | 96,793  |        |           |           |
| OC6 | Feb-88 | 10,244 | 84,046  | 88,662  |        |           |           |
| OC6 | Mar-88 | 9,683  | 98,306  | 103,072 |        |           |           |
| OC6 | Apr-88 | 9,952  | 77,408  | 81,499  |        |           |           |
| OC6 | May-88 | 9,551  | 40,765  | 43,353  |        |           |           |
| OC6 | Jun-88 | 0      | 0       | 0       |        |           |           |
| OC6 | Jul-88 | 11,103 | 75,190  | 79,837  |        |           |           |
| OC6 | Aug-88 | 9,443  | 83,243  | 88,049  |        |           |           |
| OC6 | Sep-88 | 11,139 | 89,798  | 104,934 |        |           |           |
| OC6 | Oct-88 | 10,061 | 84,907  | 90,050  |        |           |           |
| OC6 | Nov-88 | 10,020 | 94,681  | 99,688  |        |           |           |
| OC6 | Dec-88 | 10,513 | 89,777  | 94,827  | 10,179 | 920,458   | 970,764   |
| OC6 | Jan-89 | 10,190 | 84,072  | 89,071  |        |           |           |
| OC6 | Feb-89 | 10,299 | 101,096 | 106,721 |        |           |           |
| OC6 | Mar-89 | 11,097 | 27,010  | 29,834  |        |           |           |
| OC6 | Apr-89 | 0      | 0       | 0       |        |           |           |
| OC6 | May-89 | 0      | 0       | 0       |        |           |           |
| OC7 | Jan-86 | 8,176  | 138,895 | 149,680 |        |           |           |
| OC7 | Feb-86 | 11,418 | 121,837 | 131,480 |        |           |           |
| OC7 | Mar-86 | 9,540  | 109,433 | 118,640 |        |           |           |
| OC7 | Apr-86 | 9,404  | 152,190 | 164,050 |        |           |           |
| OC7 | May-86 | 9,633  | 126,893 | 137,540 |        |           |           |
| OC7 | Jun-86 | 10,167 | 74,968  | 82,830  |        |           |           |
| OC7 | Jul-86 | 9,978  | 102,206 | 111,790 |        |           |           |
| OC7 | Aug-86 | 10,254 | 92,968  | 101,200 |        |           |           |
| OC7 | Sep-86 | 10,007 | 136,717 | 148,150 |        |           |           |
| OC7 | Oct-86 | 10,957 | 11,746  | 13,710  |        |           |           |
| OC7 | Nov-86 | 0      | 0       | 0       |        |           |           |
| OC7 | Dec-86 | 0      | 0       | 0       | 9,816  | 1,068,053 | 1,159,070 |
| OC7 | Jan-87 | 9,740  | 85,496  | 93,510  |        |           |           |
| OC7 | Feb-87 | 9,453  | 115,717 | 125,600 |        |           |           |
| OC7 | Mar-87 | 9,634  | 100,448 | 109,150 |        |           |           |
| OC7 | Apr-87 | 9,639  | 118,458 | 128,520 |        |           |           |
| OC7 | May-87 | 9,307  | 131,220 | 141,860 |        |           |           |
| OC7 | Jun-87 | 9,389  | 145,861 | 157,390 |        |           |           |
| OC7 | Jul-87 | 9,869  | 140,828 | 152,660 |        |           |           |
| OC7 | Aug-87 | 10,160 | 136,524 | 148,390 |        |           |           |
| OC7 | Sep-87 | 10,412 | 138,243 | 147,890 |        |           |           |
| OC7 | Oct-87 | 9,945  | 125,453 | 136,550 |        |           |           |
| OC7 | Nov-87 | 10,570 | 24,916  | 27,850  |        |           |           |
| OC7 | Dec-87 | 9,806  | 5,777   | 7,800   | 9,777  | 1,266,941 | 1,376,970 |
| OC7 | Jan-88 | 9,901  | 103,403 | 112,610 |        |           |           |

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|     |        |        |         |         |       |           |           |
|-----|--------|--------|---------|---------|-------|-----------|-----------|
| OC7 | Feb-88 | 9,607  | 111,075 | 120,700 |       |           |           |
| OC7 | Mar-88 | 9,684  | 118,006 | 128,000 |       |           |           |
| OC7 | Apr-88 | 9,704  | 130,738 | 141,770 |       |           |           |
| OC7 | May-88 | 9,939  | 118,041 | 128,790 |       |           |           |
| OC7 | Jun-88 | 9,833  | 122,651 | 133,490 |       |           |           |
| OC7 | Jul-88 | 9,596  | 109,893 | 120,230 |       |           |           |
| OC7 | Aug-88 | 8,600  | 133,733 | 145,420 |       |           |           |
| OC7 | Sep-88 | 11,421 | 72,718  | 79,760  |       |           |           |
| OC7 | Oct-88 | 8,684  | 138,008 | 148,600 |       |           |           |
| OC7 | Nov-88 | 0      | 0       | 0       |       |           |           |
| OC7 | Dec-88 | 9,781  | 32,434  | 36,770  | 9,601 | 1,190,700 | 1,296,140 |
| OC7 | Jul-89 | 9,806  | 133,477 | 145,370 |       |           |           |
| OC7 | Aug-89 | 9,580  | 87,117  | 95,960  |       |           |           |
| OC7 | Sep-89 | 9,670  | 143,200 | 155,240 |       |           |           |
| OC7 | Oct-89 | 9,444  | 138,864 | 150,160 |       |           |           |
| OC7 | Nov-89 | 9,396  | 150,025 | 161,640 |       |           |           |
| OC8 | Jan-88 | 9,370  | 133,004 | 143,500 |       |           |           |
| OC8 | Feb-88 | 9,706  | 113,097 | 122,300 |       |           |           |
| OC8 | Mar-88 | 10,094 | 93,681  | 101,600 |       |           |           |
| OC8 | Apr-88 | 0      | 0       | 0       |       |           |           |
| OC8 | May-88 | 9,677  | 129,451 | 139,700 |       |           |           |
| OC8 | Jun-88 | 10,284 | 82,891  | 92,000  |       |           |           |
| OC8 | Jul-88 | 8,713  | 126,669 | 136,100 |       |           |           |
| OC8 | Aug-88 | 9,244  | 134,295 | 144,400 |       |           |           |
| OC8 | Sep-88 | 10,727 | 136,847 | 147,900 |       |           |           |
| OC8 | Oct-88 | 9,338  | 125,504 | 136,000 |       |           |           |
| OC8 | Nov-88 | 9,611  | 133,611 | 144,700 |       |           |           |
| OC8 | Dec-88 | 9,412  | 135,159 | 146,200 | 9,718 | 1,344,209 | 1,454,400 |
| OC8 | Jan-87 | 9,771  | 122,491 | 132,900 |       |           |           |
| OC8 | Feb-87 | 10,024 | 26,342  | 28,900  |       |           |           |
| OC8 | Mar-87 | 10,276 | 28,948  | 32,500  |       |           |           |
| OC8 | Apr-87 | 9,928  | 101,907 | 110,700 |       |           |           |
| OC8 | May-87 | 9,463  | 150,579 | 161,900 |       |           |           |
| OC8 | Jun-87 | 9,857  | 128,905 | 139,300 |       |           |           |
| OC8 | Jul-87 | 10,313 | 132,914 | 143,700 |       |           |           |
| OC8 | Aug-87 | 9,338  | 112,756 | 122,500 |       |           |           |
| OC8 | Sep-87 | 9,697  | 112,588 | 121,900 |       |           |           |
| OC8 | Oct-87 | 10,214 | 113,592 | 123,500 |       |           |           |
| OC8 | Nov-87 | 9,929  | 86,068  | 93,800  |       |           |           |
| OC8 | Dec-87 | 10,157 | 80,912  | 88,500  | 9,665 | 1,197,982 | 1,300,100 |
| OC8 | Jan-88 | 0      | 0       | 0       |       |           |           |
| OC8 | Feb-88 | 0      | 0       | 0       |       |           |           |
| OC8 | Mar-88 | 0      | 0       | 0       |       |           |           |
| OC8 | Apr-88 | 0      | 0       | 0       |       |           |           |
| OC8 | May-88 | 9,985  | 52,834  | 58,300  |       |           |           |
| OC8 | Jun-88 | 9,828  | 116,897 | 128,500 |       |           |           |
| OC8 | Jul-88 | 9,860  | 128,205 | 139,200 |       |           |           |
| OC8 | Aug-88 | 9,538  | 108,848 | 118,100 |       |           |           |
| OC8 | Sep-88 | 10,594 | 111,658 | 121,700 |       |           |           |
| OC8 | Oct-88 | 9,012  | 150,820 | 161,900 |       |           |           |
| OC8 | Nov-88 | 9,384  | 136,872 | 147,700 |       |           |           |
| OC8 | Dec-88 | 9,449  | 117,682 | 127,800 | 9,653 | 926,014   | 1,003,200 |
| OC8 | Jul-89 | 9,789  | 118,188 | 128,700 |       |           |           |
| OC8 | Aug-89 | 9,618  | 138,731 | 150,500 |       |           |           |
| OC8 | Sep-89 | 9,799  | 135,453 | 146,800 |       |           |           |



**Question 2**  
**Supplemental Heat Rate and Generation Information**

|     |        |        |         |         |        |         |         |
|-----|--------|--------|---------|---------|--------|---------|---------|
| OC8 | Oct-89 | 8,501  | 141,272 | 153,100 |        |         |         |
| OC8 | Nov-89 | 9,523  | 118,083 | 127,900 |        |         |         |
| PI1 | Jan-88 | 0      | 0       | 0       |        |         |         |
| PI1 | Feb-88 | 0      | 0       | 0       |        |         |         |
| PI1 | Mar-88 | 0      | 0       | 0       |        |         |         |
| PI1 | Apr-88 | 14,007 | 1,797   | 1,969   |        |         |         |
| PI1 | May-88 | 14,122 | 0       | 0       |        |         |         |
| PI1 | Jun-88 | 12,084 | 3,373   | 3,739   |        |         |         |
| PI1 | Jul-88 | 12,029 | 94      | 305     |        |         |         |
| PI1 | Aug-88 | 12,773 | 2,056   | 2,400   |        |         |         |
| PI1 | Sep-88 | 12,702 | 49      | 131     |        |         |         |
| PI1 | Oct-88 | 12,560 | 2,814   | 2,829   |        |         |         |
| PI1 | Nov-88 | 11,870 | 4,782   | 5,170   |        |         |         |
| PI1 | Dec-88 | 12,441 | 2,052   | 2,259   | 12,432 | 16,817  | 18,802  |
| PI1 | Feb-89 | 0      | 0       | 0       |        |         |         |
| PI2 | Jan-88 | 0      | 0       | 0       |        |         |         |
| PI2 | Feb-88 | 11,342 | 1,343   | 1,429   |        |         |         |
| PI2 | Mar-88 | 0      | 0       | 0       |        |         |         |
| PI2 | Apr-88 | 0      | 0       | 0       |        |         |         |
| PI2 | May-88 | 10,105 | 1,176   | 1,423   |        |         |         |
| PI2 | Jun-88 | 10,838 | 6,812   | 7,372   |        |         |         |
| PI2 | Jul-88 | 11,050 | 4,504   | 4,851   |        |         |         |
| PI2 | Aug-88 | 11,826 | 7,970   | 8,632   |        |         |         |
| PI2 | Sep-88 | 10,027 | 211     | 395     |        |         |         |
| PI2 | Oct-88 | 11,575 | 6,661   | 6,150   |        |         |         |
| PI2 | Nov-88 | 11,720 | 10,640  | 11,352  |        |         |         |
| PI2 | Dec-88 | 11,872 | 4,200   | 4,633   | 11,439 | 42,517  | 46,337  |
| PI2 | Feb-89 | 11,641 | 622     | 790     |        |         |         |
| PI3 | Jan-88 | 11,018 | 25,311  | 27,008  |        |         |         |
| PI3 | Feb-88 | 10,765 | 24,365  | 25,966  |        |         |         |
| PI3 | Mar-88 | 10,930 | 25,959  | 27,667  |        |         |         |
| PI3 | Apr-88 | 10,977 | 19,928  | 21,303  |        |         |         |
| PI3 | May-88 | 10,826 | 12,878  | 13,776  |        |         |         |
| PI3 | Jun-88 | 10,505 | 22,289  | 23,721  |        |         |         |
| PI3 | Jul-88 | 10,732 | 18,549  | 19,839  |        |         |         |
| PI3 | Aug-88 | 10,715 | 19,903  | 21,216  |        |         |         |
| PI3 | Sep-88 | 0      | 0       | 0       |        |         |         |
| PI3 | Oct-88 | 0      | 0       | 0       |        |         |         |
| PI3 | Nov-88 | 10,538 | 17,243  | 18,443  |        |         |         |
| PI3 | Dec-88 | 10,465 | 27,283  | 28,959  | 10,747 | 213,708 | 227,666 |
| PI3 | Feb-89 | 10,464 | 20,971  | 22,320  |        |         |         |
| PI4 | Jan-88 | 10,441 | 4,139   | 4,434   |        |         |         |
| PI4 | Feb-88 | 10,751 | 20,197  | 21,534  |        |         |         |
| PI4 | Mar-88 | 10,706 | 4,344   | 4,814   |        |         |         |
| PI4 | Apr-88 | 10,680 | 18,131  | 19,343  |        |         |         |
| PI4 | May-88 | 10,804 | 24,975  | 26,593  |        |         |         |
| PI4 | Jun-88 | 10,562 | 24,183  | 25,856  |        |         |         |
| PI4 | Jul-88 | 10,631 | 24,732  | 26,342  |        |         |         |
| PI4 | Aug-88 | 10,864 | 23,223  | 24,724  |        |         |         |
| PI4 | Sep-88 | 11,169 | 13,508  | 14,465  |        |         |         |
| PI4 | Oct-88 | 10,666 | 29,427  | 31,066  |        |         |         |
| PI4 | Nov-88 | 10,815 | 23,925  | 25,403  |        |         |         |
| PI4 | Dec-88 | 10,892 | 17,892  | 19,038  | 10,718 | 228,676 | 243,612 |
| PI4 | Feb-89 | 10,528 | 15,888  | 16,961  |        |         |         |
| PI5 | Jan-88 | 11,944 | 29,823  | 31,934  |        |         |         |

**Question 2**  
**Supplemental Heat Rate and Generation Information**

|     |        |        |        |        |        |         |         |
|-----|--------|--------|--------|--------|--------|---------|---------|
| PI5 | Feb-88 | 10,828 | 12,422 | 13,270 |        |         |         |
| PI5 | Mar-88 | 11,057 | 6,570  | 7,800  |        |         |         |
| PI5 | Apr-88 | 10,651 | 25,835 | 27,811 |        |         |         |
| PI5 | May-88 | 10,689 | 37,439 | 40,013 |        |         |         |
| PI5 | Jun-88 | 10,411 | 43,076 | 45,910 |        |         |         |
| PI5 | Jul-88 | 10,368 | 43,717 | 46,650 |        |         |         |
| PI5 | Aug-88 | 10,650 | 39,887 | 42,615 |        |         |         |
| PI5 | Sep-88 | 10,827 | 22,179 | 23,982 |        |         |         |
| PI5 | Oct-88 | 10,686 | 48,458 | 51,478 |        |         |         |
| PI5 | Nov-88 | 10,837 | 40,836 | 43,513 |        |         |         |
| PI5 | Dec-88 | 10,877 | 38,892 | 41,773 | 10,753 | 389,212 | 416,530 |
| PI5 | Feb-89 | 10,998 | 38,909 | 42,676 |        |         |         |
| PI6 | Jan-88 | 11,076 | 32,398 | 34,627 |        |         |         |
| PI6 | Feb-88 | 10,484 | 20,925 | 22,304 |        |         |         |
| PI6 | Mar-88 | 10,570 | 22,298 | 23,929 |        |         |         |
| PI6 | Apr-88 | 10,875 | 41,398 | 43,889 |        |         |         |
| PI6 | May-88 | 10,664 | 39,512 | 41,992 |        |         |         |
| PI6 | Jun-88 | 10,296 | 49,276 | 52,237 |        |         |         |
| PI6 | Jul-88 | 10,197 | 41,562 | 44,265 |        |         |         |
| PI6 | Aug-88 | 10,479 | 37,170 | 39,797 |        |         |         |
| PI6 | Sep-88 | 10,448 | 44,693 | 47,664 |        |         |         |
| PI6 | Oct-88 | 10,738 | 43,204 | 45,876 |        |         |         |
| PI6 | Nov-88 | 10,508 | 45,390 | 48,194 |        |         |         |
| PI6 | Dec-88 | 10,427 | 40,385 | 42,969 | 10,534 | 458,211 | 487,863 |
| PI6 | Feb-89 | 10,277 | 7,101  | 7,860  |        |         |         |
| PI7 | Jan-88 | 12,004 | 44,537 | 48,379 |        |         |         |
| PI7 | Feb-88 | 11,980 | 39,763 | 43,129 |        |         |         |
| PI7 | Mar-88 | 12,211 | 45,796 | 49,748 |        |         |         |
| PI7 | Apr-88 | 11,864 | 30,190 | 33,098 |        |         |         |
| PI7 | May-88 | 11,680 | 27,144 | 29,807 |        |         |         |
| PI7 | Jun-88 | 11,765 | 18,903 | 18,939 |        |         |         |
| PI7 | Jul-88 | 11,995 | 42,004 | 45,780 |        |         |         |
| PI7 | Aug-88 | 11,981 | 48,670 | 52,984 |        |         |         |
| PI7 | Sep-88 | 11,502 | 46,246 | 50,405 |        |         |         |
| PI7 | Oct-88 | 11,624 | 51,860 | 56,151 |        |         |         |
| PI7 | Nov-88 | 12,156 | 38,985 | 42,284 |        |         |         |
| PI7 | Dec-88 | 12,160 | 46,124 | 49,886 | 11,909 | 478,232 | 520,650 |
| PI7 | Feb-89 | 11,758 | 53,878 | 58,094 |        |         |         |
| PI8 | Jan-88 | 11,444 | 47,577 | 51,729 |        |         |         |
| PI8 | Feb-88 | 11,464 | 39,201 | 42,577 |        |         |         |
| PI8 | Mar-88 | 11,714 | 33,968 | 37,337 |        |         |         |
| PI8 | Apr-88 | 11,450 | 11,770 | 13,389 |        |         |         |
| PI8 | May-88 | 11,405 | 41,476 | 45,298 |        |         |         |
| PI8 | Jun-88 | 11,408 | 44,550 | 48,485 |        |         |         |
| PI8 | Jul-88 | 11,920 | 46,857 | 51,042 |        |         |         |
| PI8 | Aug-88 | 11,605 | 52,916 | 57,452 |        |         |         |
| PI8 | Sep-88 | 11,568 | 51,513 | 56,101 |        |         |         |
| PI8 | Oct-88 | 11,501 | 58,244 | 62,715 |        |         |         |
| PI8 | Nov-88 | 11,798 | 39,218 | 42,611 |        |         |         |
| PI8 | Dec-88 | 11,818 | 39,704 | 43,201 | 11,593 | 506,994 | 551,947 |
| PI8 | Feb-89 | 11,894 | 49,046 | 53,226 |        |         |         |
| PI9 | Jan-88 | 11,682 | 38,165 | 41,634 |        |         |         |
| PI9 | Feb-88 | 11,744 | 39,278 | 42,720 |        |         |         |
| PI9 | Mar-88 | 11,690 | 54,352 | 58,773 |        |         |         |
| PI9 | Apr-88 | 11,697 | 34,604 | 37,833 |        |         |         |

**Question 2**  
**Supplemental Heat Rate and Generation Information**

|     |        |        |         |         |        |           |           |
|-----|--------|--------|---------|---------|--------|-----------|-----------|
| PI9 | May-88 | 11,164 | 43,425  | 47,302  |        |           |           |
| PI9 | Jun-88 | 11,096 | 50,214  | 54,403  |        |           |           |
| PI9 | Jul-88 | 11,503 | 51,355  | 55,782  |        |           |           |
| PI9 | Aug-88 | 11,609 | 46,046  | 50,256  |        |           |           |
| PI9 | Sep-88 | 11,568 | 46,464  | 50,596  |        |           |           |
| PI9 | Oct-88 | 0      | 0       | 0       |        |           |           |
| PI9 | Nov-88 | 11,926 | 30,037  | 33,082  |        |           |           |
| PI9 | Dec-88 | 11,807 | 50,702  | 54,918  | 11,573 | 484,842   | 527,299   |
| PI9 | Feb-89 | 12,052 | 42,879  | 46,862  |        |           |           |
| PP1 | Jan-86 | 0      | 0       | 0       |        |           |           |
| PP1 | Feb-86 | 12,357 | 141,092 | 160,000 |        |           |           |
| PP1 | Mar-86 | 12,067 | 220,809 | 244,500 |        |           |           |
| PP1 | Apr-86 | 11,494 | 261,431 | 287,500 |        |           |           |
| PP1 | May-86 | 11,559 | 211,321 | 234,500 |        |           |           |
| PP1 | Jun-86 | 11,224 | 257,214 | 281,500 |        |           |           |
| PP1 | Jul-86 | 11,503 | 241,784 | 265,000 |        |           |           |
| PP1 | Aug-86 | 11,694 | 210,784 | 233,500 |        |           |           |
| PP1 | Sep-86 | 11,465 | 260,854 | 285,000 |        |           |           |
| PP1 | Oct-86 | 11,208 | 339,664 | 368,500 |        |           |           |
| PP1 | Nov-86 | 11,142 | 293,945 | 319,500 |        |           |           |
| PP1 | Dec-86 | 11,750 | 178,542 | 197,500 | 11,522 | 2,617,440 | 2,877,000 |
| PP1 | Jan-87 | 11,374 | 263,876 | 288,500 |        |           |           |
| PP1 | Feb-87 | 0      | 0       | 0       |        |           |           |
| PP1 | Mar-87 | 11,902 | 123,480 | 139,000 |        |           |           |
| PP1 | Apr-87 | 11,112 | 328,091 | 355,000 |        |           |           |
| PP1 | May-87 | 11,182 | 334,415 | 361,500 |        |           |           |
| PP1 | Jun-87 | 11,378 | 291,218 | 320,000 |        |           |           |
| PP1 | Jul-87 | 11,283 | 329,607 | 356,500 |        |           |           |
| PP1 | Aug-87 | 11,392 | 326,040 | 352,000 |        |           |           |
| PP1 | Sep-87 | 11,470 | 142,076 | 156,500 |        |           |           |
| PP1 | Oct-87 | 11,046 | 388,992 | 397,500 |        |           |           |
| PP1 | Nov-87 | 11,041 | 344,866 | 372,000 |        |           |           |
| PP1 | Dec-87 | 11,275 | 318,828 | 346,000 | 11,260 | 3,170,269 | 3,444,500 |
| PP1 | Jan-88 | 11,321 | 343,468 | 371,500 |        |           |           |
| PP1 | Feb-88 | 11,583 | 308,649 | 346,000 |        |           |           |
| PP1 | Mar-88 | 11,332 | 129,508 | 136,000 |        |           |           |
| PP1 | Apr-88 | 11,190 | 340,822 | 367,500 |        |           |           |
| PP1 | May-88 | 10,929 | 370,353 | 398,500 |        |           |           |
| PP1 | Jun-88 | 12,011 | 332,989 | 385,500 |        |           |           |
| PP1 | Jul-88 | 10,480 | 336,887 | 335,000 |        |           |           |
| PP1 | Aug-88 | 11,161 | 307,904 | 331,000 |        |           |           |
| PP1 | Sep-88 | 11,242 | 170,308 | 185,000 |        |           |           |
| PP1 | Oct-88 | 11,586 | 163,740 | 181,500 |        |           |           |
| PP1 | Nov-88 | 11,174 | 294,668 | 317,500 |        |           |           |
| PP1 | Dec-88 | 11,199 | 347,833 | 373,000 | 11,242 | 3,440,949 | 3,728,000 |
| PP2 | Jan-86 | 11,491 | 250,494 | 274,995 |        |           |           |
| PP2 | Feb-86 | 11,688 | 174,400 | 192,213 |        |           |           |
| PP2 | Mar-86 | 13,416 | 34,346  | 41,391  |        |           |           |
| PP2 | Apr-86 | 11,277 | 271,175 | 295,974 |        |           |           |
| PP2 | May-86 | 11,264 | 228,409 | 251,181 |        |           |           |
| PP2 | Jun-86 | 11,255 | 233,348 | 255,717 |        |           |           |
| PP2 | Jul-86 | 11,344 | 283,662 | 319,788 |        |           |           |
| PP2 | Aug-86 | 11,368 | 264,646 | 289,737 |        |           |           |
| PP2 | Sep-86 | 14,791 | 18,311  | 24,946  |        |           |           |
| PP2 | Oct-86 | 10,952 | 336,153 | 363,447 |        |           |           |

**Question 2**  
**Supplemental Heat Rate and Generation Information**

|     |        |        |         |         |        |           |           |
|-----|--------|--------|---------|---------|--------|-----------|-----------|
| PP2 | Nov-86 | 10,936 | 352,043 | 378,756 |        |           |           |
| PP2 | Dec-86 | 11,344 | 258,437 | 281,232 | 11,309 | 2,715,426 | 2,869,379 |
| PP2 | Jan-87 | 11,185 | 276,793 | 301,077 |        |           |           |
| PP2 | Feb-87 | 10,945 | 317,333 | 340,200 |        |           |           |
| PP2 | Mar-87 | 11,235 | 223,972 | 243,243 |        |           |           |
| PP2 | Apr-87 | 11,071 | 283,183 | 308,180 |        |           |           |
| PP2 | May-87 | 11,139 | 328,748 | 354,375 |        |           |           |
| PP2 | Jun-87 | 10,873 | 329,878 | 350,973 |        |           |           |
| PP2 | Jul-87 | 11,214 | 354,333 | 381,591 |        |           |           |
| PP2 | Aug-87 | 11,178 | 339,467 | 365,715 |        |           |           |
| PP2 | Sep-87 | 10,944 | 305,850 | 330,561 |        |           |           |
| PP2 | Oct-87 | 11,113 | 359,078 | 386,894 |        |           |           |
| PP2 | Nov-87 | 11,024 | 208,964 | 226,233 |        |           |           |
| PP2 | Dec-87 | 11,289 | 277,261 | 301,077 | 11,099 | 3,604,860 | 3,887,919 |
| PP2 | Jan-88 | 11,200 | 316,386 | 341,334 |        |           |           |
| PP2 | Feb-88 | 10,743 | 332,825 | 345,870 |        |           |           |
| PP2 | Mar-88 | 10,965 | 377,668 | 405,405 |        |           |           |
| PP2 | Apr-88 | 11,122 | 367,365 | 394,832 |        |           |           |
| PP2 | May-88 | 10,895 | 248,225 | 267,824 |        |           |           |
| PP2 | Jun-88 | 10,114 | 285,889 | 259,888 |        |           |           |
| PP2 | Jul-88 | 11,860 | 331,816 | 387,281 |        |           |           |
| PP2 | Aug-88 | 11,046 | 372,526 | 403,137 |        |           |           |
| PP2 | Sep-88 | 11,157 | 331,181 | 358,344 |        |           |           |
| PP2 | Oct-88 | 10,979 | 380,050 | 407,108 |        |           |           |
| PP2 | Nov-88 | 10,982 | 224,154 | 242,109 |        |           |           |
| PP2 | Dec-88 | 11,281 | 219,367 | 239,274 | 11,048 | 3,767,452 | 4,051,782 |
| VP1 | Jan-86 | 14,612 | 31,206  | 36,200  |        |           |           |
| VP1 | Feb-86 | 13,029 | 36,400  | 41,700  |        |           |           |
| VP1 | Mar-86 | 14,216 | 34,618  | 39,600  |        |           |           |
| VP1 | Apr-86 | 14,915 | 28,220  | 32,300  |        |           |           |
| VP1 | May-86 | 13,992 | 31,705  | 36,400  |        |           |           |
| VP1 | Jun-86 | 16,849 | 10,005  | 11,900  |        |           |           |
| VP1 | Jul-86 | 16,347 | 25,292  | 29,100  |        |           |           |
| VP1 | Aug-86 | 11,523 | 20,917  | 24,000  |        |           |           |
| VP1 | Sep-86 | 16,546 | 30,155  | 34,600  |        |           |           |
| VP1 | Oct-86 | 14,273 | 30,289  | 35,100  |        |           |           |
| VP1 | Nov-86 | 13,481 | 32,842  | 37,300  |        |           |           |
| VP1 | Dec-86 | 14,131 | 34,505  | 40,100  | 14,382 | 346,154   | 398,300   |
| VP1 | Jan-87 | 15,744 | 27,358  | 32,300  |        |           |           |
| VP1 | Feb-87 | 15,103 | 24,487  | 28,900  |        |           |           |
| VP1 | Mar-87 | 14,173 | 27,355  | 31,800  |        |           |           |
| VP1 | Apr-87 | 14,794 | 16,066  | 19,000  |        |           |           |
| VP1 | May-87 | 13,647 | 27,684  | 31,700  |        |           |           |
| VP1 | Jun-87 | 15,704 | 14,874  | 17,100  |        |           |           |
| VP1 | Jul-87 | 14,343 | 22,838  | 26,000  |        |           |           |
| VP1 | Aug-87 | 17,039 | 13,563  | 17,000  |        |           |           |
| VP1 | Sep-87 | 14,846 | 24,013  | 2,830   |        |           |           |
| VP1 | Oct-87 | 14,778 | 24,157  | 29,200  |        |           |           |
| VP1 | Nov-87 | 14,407 | 26,573  | 31,700  |        |           |           |
| VP1 | Dec-87 | 15,317 | 23,270  | 28,100  | 14,872 | 272,236   | 295,630   |
| VP1 | Jan-88 | 14,997 | 24,982  | 30,000  |        |           |           |
| VP1 | Feb-88 | 15,635 | 19,681  | 23,900  |        |           |           |
| VP1 | Mar-88 | 17,521 | 14,327  | 17,800  |        |           |           |
| VP1 | Apr-88 | 17,854 | 8,104   | 10,200  |        |           |           |
| VP1 | May-88 | 19,452 | 5,289   | 6,600   |        |           |           |

**Question 2**  
**Supplemental Heat Rate and Generation Information**

|     |        |        |        |        |        |         |         |
|-----|--------|--------|--------|--------|--------|---------|---------|
| VP1 | Jun-88 | 12,696 | 32,600 | 36,700 |        |         |         |
| VP1 | Jul-88 | 14,583 | 26,462 | 30,400 |        |         |         |
| VP1 | Aug-88 | 13,113 | 24,922 | 28,000 |        |         |         |
| VP1 | Sep-88 | 14,700 | 29,136 | 33,400 |        |         |         |
| VP1 | Oct-88 | 12,527 | 34,791 | 29,900 |        |         |         |
| VP1 | Nov-88 | 13,588 | 40,692 | 45,900 |        |         |         |
| VP1 | Dec-88 | 13,315 | 27,673 | 32,200 | 14,179 | 288,638 | 324,800 |
| VP1 | Apr-89 | 0      | 0      | 800    |        |         |         |
| VP2 | Jan-86 | 13,867 | 37,683 | 43,600 |        |         |         |
| VP2 | Feb-86 | 15,316 | 28,003 | 32,600 |        |         |         |
| VP2 | Mar-86 | 15,380 | 30,025 | 34,800 |        |         |         |
| VP2 | Apr-86 | 15,037 | 27,647 | 31,800 |        |         |         |
| VP2 | May-86 | 14,681 | 27,998 | 31,800 |        |         |         |
| VP2 | Jun-86 | 15,363 | 27,638 | 31,800 |        |         |         |
| VP2 | Jul-86 | 12,714 | 27,871 | 31,600 |        |         |         |
| VP2 | Aug-86 | 25,723 | 10,456 | 13,100 |        |         |         |
| VP2 | Sep-86 | 10,831 | 13,397 | 15,200 |        |         |         |
| VP2 | Oct-86 | 13,750 | 32,689 | 36,900 |        |         |         |
| VP2 | Nov-86 | 15,985 | 30,846 | 35,900 |        |         |         |
| VP2 | Dec-86 | 14,783 | 27,798 | 32,200 | 14,860 | 322,151 | 371,300 |
| VP2 | Jan-87 | 15,359 | 26,789 | 31,400 |        |         |         |
| VP2 | Feb-87 | 15,977 | 23,130 | 27,200 |        |         |         |
| VP2 | Mar-87 | 16,101 | 24,235 | 28,500 |        |         |         |
| VP2 | Apr-87 | 15,499 | 19,640 | 23,000 |        |         |         |
| VP2 | May-87 | 15,101 | 18,877 | 21,800 |        |         |         |
| VP2 | Jun-87 | 13,516 | 35,171 | 39,700 |        |         |         |
| VP2 | Jul-87 | 14,769 | 32,311 | 36,800 |        |         |         |
| VP2 | Aug-87 | 16,882 | 15,799 | 18,900 |        |         |         |
| VP2 | Sep-87 | 31,486 | 1,710  | 2,500  |        |         |         |
| VP2 | Oct-87 | 0      | 0      | 0      |        |         |         |
| VP2 | Nov-87 | 29,723 | 3,223  | 4,500  |        |         |         |
| VP2 | Dec-87 | 16,398 | 22,020 | 25,900 | 15,667 | 222,905 | 260,200 |
| VP2 | Jan-88 | 15,703 | 26,705 | 31,600 |        |         |         |
| VP2 | Feb-88 | 15,512 | 25,478 | 30,300 |        |         |         |
| VP2 | Mar-88 | 14,201 | 26,133 | 30,600 |        |         |         |
| VP2 | Apr-88 | 15,317 | 21,979 | 26,100 |        |         |         |
| VP2 | May-88 | 15,583 | 25,529 | 29,800 |        |         |         |
| VP2 | Jun-88 | 17,000 | 24,421 | 27,800 |        |         |         |
| VP2 | Jul-88 | 13,994 | 22,562 | 25,400 |        |         |         |
| VP2 | Aug-88 | 14,410 | 34,391 | 38,800 |        |         |         |
| VP2 | Sep-88 | 0      | 0      | 0      |        |         |         |
| VP2 | Oct-88 | 13,427 | 22,500 | 25,400 |        |         |         |
| VP2 | Nov-88 | 13,776 | 37,345 | 41,900 |        |         |         |
| VP2 | Dec-88 | 13,835 | 34,360 | 39,400 | 14,726 | 301,423 | 347,100 |
| VP2 | Apr-89 | 9,241  | 28,132 | 32,800 |        |         |         |

**WISCONSIN ELECTRIC POWER COMPANY**  
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| Plant | W/O or IO | Project                             | Description                                     | Approved Date | In-Service Date | Approved Amount | Total Expenditures |
|-------|-----------|-------------------------------------|---|---------------|-----------------|-----------------|--------------------|
| OCPP  | 5971      | 2921                                | BOILER CIRC WATER PUMPS - #7/8 OCPP             | Aug-79        | Sep-82          | 652,000         | 853,005            |
|       | 5497      | 2886                                | REPLACE DEMINERALIZER SYS/OCPP                  | Sep-78        | Dec-80          | 2,014,599       | 2,014,599          |
|       | 7353      | 9557                                | PULVERIZER SYSTEMS - OCPP #5&6                  | Mar-72        | Aug-78          | 1,850,000       | 1,757,139          |
|       | 7415      | 9557                                | PULVERIZER SYSTEM - OCPP #6                     | Mar-72        | Sep-76          | 1,850,000       | 1,756,832          |
|       | 8565      | 110                                 | BOILER WATER SAMPL PIPE - 4 OCPP BOILERS        | Aug-74        | Sep-76          | 643,000         | 641,396            |
|       | 8731      | 120                                 | FDWTR HTRS 6A-B 7A-B/#6                         | Feb-75        | Feb-77          | 530,000         | 528,273            |
|       | 8846      | 93                                  | EQT/MODIFICATION #7/8 BOILER                    | May-75        | Mar-77          | 640,000         | 577,954            |
|       | 9867      | 2701                                | FURNACE SAFEGUARD SUPERVISORY SYS - OCPP        | Sep-77        | May-83          | 1,439,000       | 1,362,888          |
|       | 10082     | 841                                 | NEW LP SHAFT - OCPP #7                          | Feb-80        | Mar-81          | 1,162,000       | 1,168,707          |
|       | 10570     | 20488                               | 65A/65B HEATER REPLACEMENT                      | Apr-81        | Jan-82          | 281,500         | 256,619            |
|       | 10594     | 23108                               | OCPP #5 REPLACING THE ECONOMIZER                | May-81        | Aug-82          | 1,680,000       | 1,657,260          |
|       | 10761     | 13402                               | STM AIR HTR REPLAC - OCPP #5                    | Oct-81        | Aug-82          | 870,200         | 857,852            |
|       | 11010     | 20607                               | COMPUTER - OCPP #7                              | Jun-82        | Mar-86          | 1,057,214       | 1,144,775          |
|       | 11024     | 20839                               | COMPUTER-OCPP #8                                | Jul-82        | Aug-85          | 1,158,760       | 1,180,114          |
|       | 11329     | 9060                                | PRECIP PLATE REPLAC/CONT UPGRAD - OCPP #6       | Jun-83        | Aug-84          | 2,977,000       | 2,903,689          |
|       | 12274     | 20597                               | FDWTR HTRS 56A/B OCPP                           | Oct-85        | Oct-86          | 378,000         | 373,160            |
|       | 12308     | 20980                               | UNIT 5 PRECIPIT MODIFY - OCPP                   | Nov-85        | Oct-86          | 3,677,810       | 3,624,417          |
|       | 12312     | 21373                               | REHTR TUBING UNIT 7 - OCPP                      | Nov-85        | Jan-87          | 997,865         | 1,074,141          |
|       | 41500     |                                     | OCPP #5 UPGRADE UNIT CONTROLS AND MONITOR SYS   | Feb-86        | Jun-89          | 6,048,048       | 6,284,446          |
|       | 41503     |                                     | OCPP #5 REPLACE ID & FD FAN LIQUID RHEOSTATS    | Feb-86        | Jun-89          | 2,545,360       | 2,409,237          |
|       | 41507     |                                     | OCPP #5 REPLACE ID FANS                         | Feb-86        | Jun-89          | 2,426,457       | 1,650,495          |
|       | 41510     |                                     | OCPP #5 CONVERSION TO DIRECT FIRE               | Feb-86        | Jun-89          | 9,859,110       | 10,908,423         |
|       | 41560     |                                     | OCPP# 5 REPLACE BOILER CONVECTION HRA           | Feb-86        | Jun-89          | 2,188,345       | 3,260,243          |
|       | 41581     |                                     | OCPP #5 REPLACE BOILER PENTHOUSE TUBING & STRUC | Feb-86        | Jun-89          | 1,584,021       | 2,778,603          |
|       | 41563     |                                     | OCPP #5 REPLACE FRNT WTRWALL UP TO INTERMED HDR | Feb-86        | Jun-89          | 2,197,922       | 2,438,537          |
|       | 41600     |                                     | OCPP #6 UPGRADE UNIT CONTROLS AND MONITOR SYS   | Feb-86        | Jun-89          | 8,283,289       | 8,276,297          |
|       | 41603     |                                     | OCPP #6 REPLACE FD & ID FAN LIQUID RHEOSTATS    | Feb-86        | Jun-89          | 2,526,157       | 2,457,264          |
|       | 41610     |                                     | OCPP #6 CONVERSION TO DIRECT FIRE               | Feb-86        | Jun-89          | 10,337,642      | 12,874,670         |
|       | 41611     |                                     | OCPP #6 REPLACE STEAM AIR PREHEATER             | Feb-86        | Jul-88          | 923,823         | 1,066,467          |
|       | 41660     |                                     | OCPP #6 REPLACE BOILER CONVECTION HRA           | Feb-88        | Jun-89          | 2,229,030       | 3,941,664          |
|       | 41661     |                                     | OCPP #6 REPLACE BOILER PENTHOUSE TUBING & STRUC | Feb-88        | Jun-89          | 1,615,652       | 2,977,716          |
|       | 41663     |                                     | OCPP #6 REPLACE BOILER WTRWALL UP TO INTERM HDR | Feb-86        | Jun-89          | 1,830,641       | 2,472,353          |
|       | 41665     |                                     | OCPP #6 REPLACE BOILER REHEATER                 | Feb-86        | Jun-89          | 1,506,588       | 2,331,786          |
|       | 41666     |                                     | OCPP #6 REPLACE BOILER SUPERHEATER PENDANTS     | Feb-86        | Jun-89          | 813,000         | 1,082,201          |
| 41700 |           | OCPP #7 UPGRADE UNIT CONTROLS       | Feb-86  | Jun-89        | 5,135,071       | 3,616,674       |                    |
| 41702 |           | OCPP #7 UPGRADE PRECIPITATOR        | Feb-86  | Jun-89        | 27,748,090      | 24,071,096      |                    |
| 41800 |           | OCPP #8 UPGRADE COMBUSTION CONTROLS | Feb-86  | Jun-89        | 4,760,538       | 5,112,447       |                    |
| 41802 |           | OCPP #8 UPGRADE PRECIPITATOR        | Feb-86  | Jun-89        | 29,604,280      | 29,540,536      |                    |
| 41820 |           | OCPP - ADD ONE CONDENSATE POLISHER  | Feb-86  | Jun-89        | 2,491,987       | 1,973,938       |                    |

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| Plant | W/O or VO | Project | Description                                     | Approved Date | In-Service Date | Approved Amount | Total Expenditures |
|-------|-----------|---------|---|---------------|-----------------|-----------------|--------------------|
|       | 41921     |         | OCPP - UPGRADE MONO & TRISOD PHOSPHATE FEED SYS | Feb-86        | Jun-89          | 558,272         | 533,881            |
|       | 41990     |         | OCPP #5-8 ADD GENERATOR CIRCUIT BREAKERS        | Feb-86        | Jun-89          | 1,950,864       | 2,567,221          |
|       | 12520     | 21361   | ASKAREL-FILLED TRSF REPLAC - OCPP               | Apr-86        | Jun-89          | 644,938         | 644,938            |
|       | 12670     | 21554   | CHEM FEED/BOILER WTR SYS - OCPP #5              | Sep-86        | Nov-87          | 314,000         | 307,511            |
|       | 12672     | 21552   | CHEM FEED/BOILER WTR SYS - OCPP #7              | Sep-86        | Jan-88          | 244,000         | 259,666            |
|       | 12755     | 21318   | FDWTR HTRS 57A/B - OCPP # 5                     | Nov-86        | Jul-87          | 326,824         | 329,410            |
|       | 13009     | 20693   | 88 FDWTR HTR - OCPP #8                          | Jun-87        | Apr-88          | 243,000         | 265,134            |
|       | 13013     | 21430   | FDWTR HTR - OCPP #8                             | Jun-87        | Apr-88          | 303,000         | 322,654            |
|       | 13126     | 21210   | UNITRAIN COAL SAMPLER - OCPP                    | Sep-87        | Nov-88          | 564,000         | 527,566            |
|       | 13225     | 21429   | REPLAC FDWTR HTR 7 - OCPP                       | Nov-87        | Dec-88          | 344,153         | 342,463            |
|       | 13705     | 34017   | STM AIR PREHTR TUBING - OCPP#7                  | Aug-88        | Dec-88          | 449,500         | 412,320            |
|       | 13888     | 21515   | UPGRAD TURB HYDRAULIC GOVN SYS - OCPP #5        | Nov-88        | Feb-91          | 788,877         | 838,973            |
|       | 13889     | 21592   | UPGRAD TURB HYDRAULIC GOVN SYS - OCPP #6        | Nov-88        | Mar-90          | 799,090         | 991,321            |
|       | 13929     | 21405   | OCPP #5 FLUE GAS CONDITIONING EQUIP             | Dec-88        | Jun-91          | 899,871         | 1,057,326          |
|       | 13930     | 21406   | OCPP #6 FLUE GAS CONDITIONING EQUIP             | Dec-88        | Jul-90          | 1,600,766       | 1,682,115          |
|       | 14266     | 40368   | GAS IGNITION/WARMUP-OCPP #7&8                   | Jul-89        | Dec-91          | 305,879         | 354,487            |
|       | 14325     | 34007   | OCPP #5-8 TURBINE OIL FIRE PRCTCN               | Aug-89        | Nov-90          | 479,977         | 556,073            |
|       | 14334     | 34020   | OCPP #5-8 PROCPRESS STEAM HEADER                | Aug-89        | Dec-89          | 2,396,773       | 2,565,594          |
|       | 14799     | 21611   | SPARE GENERATOR STEP-UP TRF-OCPP #5-8           | May-90        | May-90          | 2,076,744       | 2,105,048          |
|       | 14836     | 40529   | REPL HPHSW LINE                                 | May-90        | Dec-90          | 277,422         | 283,725            |
|       | 15182     | 33971   | REPL ECONOMIZER OCPP #7                         | Dec-90        | May-92          | 3,020,782       | 2,990,387          |
|       | 15281     | 34075   | 2ND FLY ASH SILO - OCPP #7 & 8                  | Feb-91        | Dec-92          | 3,201,650       | 3,153,333          |
|       | 15408     | 40698   | INST DEMIN WASTE NEUTRALIZING TANK-OCPP         | May-91        | Feb-92          | 249,791         | 287,870            |
|       | 15577     | 89900   | REPL ECONOMIZER - OCPP#8                        | Sep-91        | Jul-95          | 2,032,256       | 1,883,202          |
|       | 15578     | 89900   | REPL REHEAT TUBING - OCPP#8                     | Sep-91        | Sep-95          | 652,062         | 650,069            |
|       | 15636     | 34083   | ZEBRA MUSSEL CHEMICAL CNTL SYS- OCPP            | Oct-91        | May-92          | 519,944         | 642,568            |
|       | 15689     | 40688   | INSTALL CEM'S OCPP #5-8                         | Dec-91        | Jun-93          | 1,158,529       | 1,257,771          |
|       | 15692     | 40635   | INSTALL LOW NOX BURNERS-OCPP # 7                | Dec-91        | May-92          | 3,735,370       | 3,759,721          |
|       | 16061     | 40635   | INST LOW NOX BURNERS-OCPP#8                     | Mar-93        | Apr-95          | 4,849,012       | 4,589,886          |
|       | 16098     | 13111   | REPL 56A FEEDWATER HEATER-OCPP #5               | Jan-95        | Dec-95          | 245,000         | 290,083            |
|       | 16114     | 44462   | REPAIRS TO CAR DUMPER-OCPP YARD                 | Jun-93        | Jul-93          | 800,635         | 802,748            |
|       | 16321     | 89900   | DUCTING REPLACEMENT OCPP #5                     | Aug-95        | Dec-95          | 630,337         | 650,917            |
|       | 16351     | 89900   | REPLACE DUCT FROM AIRHTR TO PRECIP - OCPP #6    | Jan-96        | Apr-96          | 671,671         | 693,947            |
|       | AC1000631 |         | OCPP Y BREAKWALL                                | Dec-97        | Dec-99          | 3,500,000       | 2,997,572          |
|       | AC1000903 |         | OCPP #8 HIGH EFF EXHAUSTERS                     | Sep-98        | Mar-99          | 390,000         | 411,788            |
|       | AC1000904 |         | OCPP #7 HIGH EFF EXHAUSTERS                     | Sep-98        | Jan-00          | 300,000         | 324,884            |
|       | AC1000905 |         | OCPP #5 SOOTBLOWERS                             | Feb-98        | Oct-98          | 633,800         | 646,509            |
|       | AC1000906 |         | OCPP #6 SOOTBLOWERS                             | Oct-98        | May-99          | 600,000         | 488,113            |
|       | AC1000908 |         | OCPP #8 SOOTBLOWERS                             | Jul-98        | Mar-99          | 690,000         | 676,617            |

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| Plant                         | W/O or I/O | Project                                     | Description                               | Approved Date | In-Service Date | Approved Amount | Total Expenditures |
|-------------------------------|------------|---|---|---------------|-----------------|-----------------|--------------------|
| WE Proprietary & Confidential | AC1000909  |   | OCPP DUMPER BELT FEEDERS                  | Mar-98        | Apr-99          | 750,000         | 752,814            |
|                               | AC1000910  |   | OCPP WET FLY ASH UNLOADERS                | May-98        | Nov-98          | 292,500         | 290,748            |
|                               | AC1001083  |   | OCPP #8 NEW WATER LANCES                  | Oct-98        | Jun-99          | 487,000         | 480,625            |
|                               | AC1001084  |   | OCPP #7 NEW WATER LANCES                  | Jul-99        | Jun-00          | 487,000         | 394,419            |
|                               | AC1001146  |   | OCPP #7 MILL MOTORS                       | Sep-98        | Jan-00          | 550,000         | 444,198            |
|                               | AC1001147  |   | OCPP #8 MILL MOTORS                       | Sep-98        | Mar-99          | 500,000         | 496,600            |
|                               | AC1001160  |   | OCPP DUMPER FOAM DUST SUPPRESSION         | Jan-99        | Jul-99          | 260,000         | 312,463            |
|                               | AC1001236  |   | OCPP REPLACE 51,52,73&74 AIR COMPRESSORS  | Dec-98        | Feb-00          | 403,000         | 451,987            |
|                               | AC1001253  |   | OCPP #5 PRECIP UPGRADES                   | Jul-99        | Jun-00          | 480,000         | 382,229            |
|                               | AC1001254  |   | OCPP #6 PRECIP UPGRADES                   | Dec-98        | May-99          | 375,000         | 382,828            |
|                               | AC1001270  |   | OCPP #6 AIR HEATER SOOTBLOWERS            | Nov-99        | UC *            | 350,000         |                    |
|                               | AC1001658  |   | OCPP #7 LOW NOX BURNER & OVER FIRED AIR   | Nov-99        | UC              | 10,642,000      |                    |
|                               | AC1001709  |   | OCPP #8 INSTALL ADDITIONAL WATER LANCES   | Apr-00        | UC              | 290,000         |                    |
|                               | AC1001710  |   | OCPP #8 DUCT BURNER REPLACEMENT           | Apr-00        | UC              | 280,000         |                    |
|                               | AC1001717  |   | OCPP #5 52 MILL REBUILD                   | Mar-00        | Jun-00          | 528,437         | 526,507            |
|                               | AC1001742  |   | OCPP #8 LOW NOX BURNER AND OVER FIRED AIR | Nov-99        | UC              | 10,642,000      |                    |
|                               | AC1001744  |   | OCPP #8 AIR HEATER SOOTBLOWERS            | Apr-00        | UC              | 240,000         |                    |
|                               | AC1001749  |   | OCPP #6 FURNACE APERTURE SOOTBLOWERS      | Nov-99        | UC              | 900,000         |                    |
|                               | AC1001782  |   | OCPP #5 ECONOMIZER REPLACEMENT            | Nov-99        | UC              | 3,650,000       |                    |
|                               | AC1001783  |   | OCPP #6 ECONOMIZER REPLACEMENT            | Nov-99        | UC              | 3,650,000       |                    |
| AC1001836                     |            | OCPP #6 62 BALL MILL REFURBISHMENT          | Oct-00                                    | UC            | 1,037,000       |                 |                    |
| AC1002005                     |            | OCPP HOUSE SERVICE WATER PIPING REPLACEMENT | Dec-00                                    | UC            | 1,890,000       |                 |                    |
| AFO00140                      |            | OCPP THREE COAL BELT SCALES                 | Jul-95                                    | Sep-96        | 605,000         | 425,108         |                    |
| AFO00260                      |            | OCPP PRB COAL BLNDG IMPROVE -DUST. COLL.    | Mar-97                                    | Jan-98        | 2,032,896       | 2,018,497       |                    |
| AFO00425                      |            | OCPP #5 HS GENERATOR REWIND                 | Nov-97                                    | Feb-99        | 2,182,500       | 2,198,968       |                    |
| 15492                         |            | REPLACE PCB TRANSFORMER                     | Jul-91                                    | Dec-94        | 264,979         | 261,057         |                    |
| 13666                         |            | DIST. CONTROL SYSTEM - COMMON PLT. EQT.     | Jul-88                                    | Apr-92        | 629,961         | 740,496         |                    |
| PIPP                          | 14283      | 34348                                       | PIPP #4 SPARE GENERATOR STATOR COILS      | Jul-89        | Aug-89          | 486,028         | 479,315            |
|                               | 14599      | 34274                                       | BOILER FLAME SAFEGUARD SYS-PIPP # 4       | Jan-90        | Apr-91          | 758,000         | 818,028            |
|                               | 14604      | 3427  | BOILER FLAME SAFEGUARD SYS-PIPP #3        | Jan-90        | Dec-90          | 907,322         | 915,589            |
|                               | 15549      | 34303                                       | NOZZLE PLATES- PIPP 5-9 & 3-4             | Sep-91        | Sep-91          | 330,000         | 334,188            |
|                               | 15690      | 40690                                       | INSTALL CEM'S PIPP UNITS 1-9              | Dec-91        | Oct-94          | 1,652,602       | 2,020,536          |
|                               | 15824      | 40710                                       | PIPP #7 BURNER MGMT SYS UPGRADE           | Apr-92        | Dec-96          | 319,873         | 337,434            |
|                               | 15825      | 40711                                       | PIPP #8 BURNER MGMT SYS UPGRADE           | Apr-92        | Oct-93          | 302,876         | 328,112            |
|                               | 15826      | 40712                                       | PIPP #9 BURNER MGMT SYS UPGRADE           | Apr-92        | May-93          | 508,000         | 470,319            |
|                               | 15990      | 34316                                       | REHEAT SECT UNIT 8 BOILER-PIPP            | Oct-92        | Aug-93          | 300,000         | 298,672            |
|                               | 16074      | 20173                                       | REPLACE REHEAT SECTION - PIPP #5          | Mar-93        | Sep-94          | 350,000         | 256,422            |
| 16075                         | 44913      | REPL ECONOMIZER BOILER TUBES-PIPP #4        | Mar-93                                    | Jul-93        | 250,000         | 260,277         |                    |

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**WISCONSIN ELECTRIC POWER COMPANY**  
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| Plant    | W/O or I/O | Project                         | Description                                | Approved Date | In-Service Date | Approved Amount | Total Expenditures |
|----------|------------|---------------------------------|--|---------------|-----------------|-----------------|--------------------|
| WE       | 16214      | 20235                           | REPLACE HTSH WRAPPER TUBES - PIPP #5       | Mar-94        | Feb-95          | 400,000         | 321,320            |
|          | 16215      | 20226                           | REPLACE HTSH WRAPPER TUBES - PIPP #6       | Mar-94        | Feb-95          | 400,000         | 330,292            |
|          | 16241      | 44800                           | PIPP #7 CLASSIFIER                         | Jun-94        | Mar-96          | 400,000         | 352,098            |
|          | 16297      | 44798                           | REPLACE CLASSIFIERS PIPP # 8               | May-95        | Aug-97          | 325,000         | 303,445            |
|          | 16302      | 44799                           | REPLACE CLASSIFIERS PIPP # 9               | May-95        | Jul-96          | 330,000         | 344,416            |
|          | AC1000386  |                                 | PIPP #8 BOILER REHEATER REPLACEMENT        | May-98        | Sep-99          | 1,300,000       | 1,319,450          |
|          | AC1000582  |                                 | PIPP #6 COAL STORAGE SILOS                 | Oct-99        | Aug-00          | 1,600,000       | 1,609,396          |
|          | AC1000880  |                                 | PIPP #5 COAL STORAGE SILOS                 | Feb-00        | UC              | 1,600,000       |                    |
|          | AC1001049  |                                 | PIPP #1 BOILER CONTROLS                    | May-00        | UC              | 200,000         |                    |
|          | AC1001050  |                                 | PIPP #2 BOILER CONTROLS                    | May-00        | UC              | 300,000         |                    |
|          | AC1001143  |                                 | PIPP #3 REPLACE WATERWALL                  | Jan-99        | Apr-98          | 497,500         | 545,075            |
|          | AC1001349  |                                 | PIPP #1 TURBINE OPENING/OVERHAUL           | Feb-99        | Apr-98          | 782,562         | 625,195            |
|          | AC1001350  |                                 | PIPP #2 TURBINE OPENING/OVERHAUL           | Feb-99        | Aug-99          | 795,539         | 588,329            |
|          | AC1001374  |                                 | PIPP #2 WATERWALL REPLACE.& BLR CLEANING   | Sep-00        | May-99          | 482,000         | 459,378            |
|          | AC1001483  |                                 | PIPP #3 LOW NOX BURNERS                    | Nov-99        | UC              | 4,000,000       |                    |
|          | AC1001536  |                                 | PIPP #1-9 FUEL OIL TANK CONTAINMENT        | Aug-00        | UC              | 780,000         |                    |
|          | AC1001484  |                                 | PIPP #5 LOW NOX BURNER & OVER FIRED AIR    | Nov-99        | UC              | 6,500,000       |                    |
|          | AC1001513  |                                 | PIPP #3 TURBINE OPENING/OVERHAUL           | Jun-99        | Jun-99          | 1,609,200       | 1,666,652          |
|          | AC1001738  |                                 | PIPP #8 LOW NOX BURNER AND OVER FIRED AIR  | Nov-99        | UC              | 3,975,000       |                    |
|          | AFO00284   |                                 | PIPP #3 LTSH BOILER TUBE REPLACEMENT       | Mar-97        | Aug-97          | 1,030,625       | 927,548            |
|          | AFO00286   |                                 | PIPP #6 AGGLOMERATOR - INSTALLATION        | Jan-97        | Jul-98          | 1,200,000       | 1,195,308          |
|          | AFO00330   |                                 | PIPP #4 LTSH BLR TUBE REPLACEMENT          | Apr-98        | Dec-98          | 1,000,000       | 1,091,572          |
|          | AFO00333   |                                 | PIPP #1-4 FABRIC FILTER PROJECT            | Jan-98        | Jun-99          | 19,741,000      | 22,278,417         |
| AFO00363 |            | PIPP #7 REHEAT TUBE REPLACEMENT | May-98                                     | May-00        | 1,300,000       | 1,340,585       |                    |
| PPPP     | 10734      | 24566                           | GUILLOTINE AIR DAMPERS - PPPP              | Sep-81        | Jan-83          | 300,000         | 334,425            |
|          | 11262      | 24554                           | ALT WATER SUPPLY - PPPP                    | Mar-83        | Mar-84          | 665,000         | 696,239            |
|          | 11791      | 20062                           | BURNER MNGMNT SYS - PPPP #1                | Aug-84        | Feb-86          | 244,900         | 268,219            |
|          | 11860      | 24498                           | GAS IGNITION CONV - PPPP                   | Oct-84        | Jan-86          | 2,967,500       | 3,019,273          |
|          | 12255      | 24568                           | DRUM SWELL BLOWDOWN PPPP #1                | Sep-85        | Aug-86          | 283,500         | 324,671            |
|          | 12635      | 24641                           | SOLIDS REMOVAL FACILITY - PPPP             | Aug-86        | Sep-89          | 2,484,021       | 2,963,811          |
|          | 12922      | 24642                           | REPLAC MAKEUP WTR PIPELN - PPPP            | Apr-87        | Nov-88          | 3,907,174       | 4,183,237          |
|          | 13033      | 24694                           | COAL HANDL SYS FDRS - PPPP                 | Jun-87        | Nov-88          | 625,500         | 911,777            |
|          | 13446      | 24676                           | UPGRAD COAL HANDL HTG FAC - PPPP           | Apr-88        | Feb-89          | 986,000         | 1,137,764          |
|          | 14289      | 24754                           | PPPP UNIT 2 FD FAN MOTOR REPLMNT           | Jul-89        | Jul-91          | 621,000         | 655,858            |
|          | 14503      | 40380                           | PPPP AIR HTR WASHDOWN DRAIN LINE           | Nov-89        | Dec-90          | 350,000         | 326,666            |
|          | 14837      | 24766                           | REPL SECONDARY AIR PREHEATER TUBE PPPP # 1 | May-90        | Apr-91          | 283,793         | 282,343            |
|          | 15139      | 40496                           | PPPP YARD-UNTRAIN CAR DUMPER BARREL REPL   | Nov-90        | Oct-92          | 1,621,558       | 1,885,172          |
|          | 15687      | 40686                           | INSTALL CEM'S PPPP UNITS 1 & 2             | Dec-91        | Nov-93          | 707,000         | 589,394            |

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WEP CO 30004

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P. 05

**WISCONSIN ELECTRIC POWER COMPANY**  
**EPA 114 DATA REQUEST**  
**QUESTION NUMBER 3**

| Plant | W/O or I/O | Project | Description                                    | Approved Date | In-Service Date | Approved Amount | Total Expenditures |
|-------|------------|---------|--|---------------|-----------------|-----------------|--------------------|
|       | 16139      | 89900   | PPPP GEN - REPLACE RAW WATER LINE              | Aug-93        | Jan-00          | 375,000         | 337,334            |
|       | AC1000981  |         | PPPP #1 UPGRADE HIGH PRESSURE TURBINE          | Mar-98        | Dec-98          | 5,285,000       | 5,524,076          |
|       | AC1001035  |         | PPPP #1 BOILER ECONOMIZER UPGRADE              | Aug-98        | Feb-99          | 593,168         | 447,787            |
|       | AC1001205  |         | PPPP ASH REBURN                                | Jan-99        | Nov-00          | 4,000,000       | 3,092,422          |
|       | AC1001279  |         | PPPP #1 REPAIR OF GENERATOR STATOR WINDING     | Oct-98        | Mar-99          | 1,700,000       | 1,704,021          |
|       | AC1001396  |         | PPPP #1 GENERATOR PARTIAL REWIND               | Apr-99        | Jun-00          | 1,629,500       | 1,676,946          |
|       | AC1001397  |         | PPPP #1 REPLACE HIGH TEMPERATURE SUPERHEATER   | May-99        | Jun-00          | 5,250,000       | 5,421,036          |
|       | AC1001398  |         | PPPP #2 GEN GLOBAL EPOXY INJECTION             | Apr-99        | Jun-99          | 1,785,000       | 1,932,675          |
|       | AC1001482  |         | PPPP #2 SELECTIVE CATALYTIC REDUCTION PROJECT  | Nov-99        | UC              | 67,064,226      | 2,140,119          |
|       | AFO00038   |         | PPPP DCS COMPUTER UPGRADE                      | Sep-91        | May-95          | 2,917,943       | 2,928,413          |
|       | AFO00415   |         | PPPP #1 AIR HEATER HOT SIDE SOOTBLOWERS        | Sep-97        | Dec-98          | 970,000         | 1,014,328          |
|       | AFO00416   |         | PPPP #2 AIR HEATER HOT SIDE SOOTBLOWERS        | Sep-97        | Jun-98          | 970,000         | 970,387            |
|       | 15406      |         | VENTILATING BOILER AIR/GAS SYSTEM              | May-91        | Oct-93          | 964,774         | 1,202,866          |
| PWPP  | 15952      | 21764   | RESTORE PULVERIZED FUEL BIN-PWPP 3             | Sep-92        | Sep-92          | 393,600         | 355,538            |
|       | 16284      | 89900   | GENERATOR REWIND PWPP #1                       | Feb-95        | Jan-00          | 1,035,700       | 1,082,868          |
|       | AC1000562  |         | PWPP INST NEW COAL CRSHR & MOD EXIST STRUCTURE | Mar-99        | Sep-00          | 490,000         | 436,693            |
|       | AC1001019  |         | PWPP #3 GENERATOR ROTOR REWIND                 | Jun-98        | Jun-99          | 1,320,000       | 1,398,606          |
|       | AC1001149  |         | PWPP #2 AUX. POWER TRANSFORMER REPLACEMENT     | Sep-98        | Dec-99          | 325,000         | 252,811            |
|       | AC1001418  |         | PWPP #4 GENERATOR ROTOR REWIND                 | Feb-99        | Jul-99          | 1,220,000       | 997,343            |
|       | AFO00261   |         | PWPP # 3 REHEAT TUBES                          | Feb-98        | Jun-00          | 690,000         | 689,543            |
|       | AFO00262   |         | PWPP # 2 REHEAT TUBES                          | Jan-98        | May-99          | 690,000         | 850,930            |
|       | AFO00263   |         | PWPP #1 REHEAT TUBES                           | Nov-97        | Jul-98          | 775,000         | 947,697            |
|       | AFO00264   |         | PWPP #4 REHEAT TUBES                           | Feb-98        | Mar-98          | 690,000         | 843,015            |
|       | AFO00319   |         | PWPP #1 REPL SCR TUBES, FRNT WTRWALLS, PLATNS  | Oct-98        | Jan-00          | 1,732,000       | 1,697,194          |
|       | AFO00325   |         | PWPP #2 REPL WATERWALL CIRCUIT PROJECTS        | May-97        | Nov-97          | 515,701         | 720,296            |
| VAPP  | 5430       | 2326    | BOILER 2 SECONDARY HEATER                      | Aug-78        | Oct-78          | 447,000         | 359,515            |
|       | 8438       | 106     | CONVERT BOILERS 1 & 2 - VAPP (BALANCE DRAFT)   | Apr-74        | Jul-79          | 2,725,000       | 2,595,919          |
|       | 8439       | 107     | CONVERT BOILERS 3 & 4 - VAPP (BALANCE DRAFT)   | Apr-74        | Nov-79          | 2,170,000       | 2,189,792          |
|       | 9146       |         | GENERATOR ROTOR - VAPP # 2                     | Mar-76        | Jul-77          | 654,000         | 681,857            |
|       | 9164       | 142     | SECOND SUPERHTR SEC #4 BOILER                  | Mar-76        | Aug-77          | 300,000         | 373,784            |
|       | 11451      | 23946   | REPAIR COAL SLOS VAPP #1                       | Oct-83        | Feb-85          | 354,654         | 354,654            |
|       | 11452      | 23947   | REPAIR COAL SLOS VAPP #2                       | Oct-83        | Feb-85          | 314,763         | 314,763            |
|       | 11463      | 13818   | UPGRADE WATER SAMPL SYS - VAPP                 | Oct-83        | Oct-84          | 365,000         | 371,271            |
|       | 11613      | 10083   | S03 FLUE GAS CONDITION - VAPP                  | Mar-84        | Jul-85          | 1,975,000       | 1,953,773          |
|       | 12374      | 23921   | INSTALL 20 INCH TURB BYPASS VAPP               | Jan-86        | Oct-88          | 560,700         | 584,908            |
|       | 12409      | 23928   | VAPP DEMINERALIZER CONT UPGRADE                | Feb-86        | Jan-87          | 397,000         | 379,872            |
|       | 12808      | 23939   | PRIM SUPRHTR/ECON SURF-VAPP BLR 3              | Jan-87        | Dec-87          | 1,023,000       | 1,053,876          |

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T O S

**WISCONSIN ELECTRIC POWER COMPANY**  
**EPA 114 DATA REQUEST**  
**QUESTION NUMBER 3**

| Plant  | W/O or VO | Project | Description                               | Approved Date | In-Service Date | Approved Amount | Total Expenditures |
|--|-----------|---------|---|---------------|-----------------|-----------------|--------------------|
| WE Proprietary & Confidential<br><br>WEPCO 30006 | 13449     | 24084   | ELEC ADJ SPEED DR - VAPP                  | Apr-88        | Dec-89          | 1,118,063       | 1,239,762          |
|  | 13453     | 23982   | PRIM SUPRHTR/ECONOM SURF-VAPP BLR 4       | Apr-88        | Jun-89          | 1,218,479       | 1,219,983          |
|  | 14118     | 24085   | VAPP ID FANS VAR SPEED DRIVES 1-2         | Apr-89        | May-91          | 1,873,541       | 2,098,574          |
|  | 14653     | 23981   | REPL ECONOMIZER/PRIM SUPHTR-BLR 2 VAPP #1 | Mar-90        | Jun-91          | 1,067,446       | 1,040,325          |
|  | 15688     | 40687   | INSTALL CEM'S VAPP                        | Dec-91        | Feb-94          | 1,450,000       | 1,527,553          |
|  | 15815     | 24082   | VAPP #1-CONTROL & MONITORING SYS          | Apr-92        | Aug-94          | 3,146,736       | 2,989,790          |
|  | 15816     | 24083   | VAPP #2-CONTROL & MONITORING SYS          | Apr-92        | Aug-95          | 2,566,352       | 2,398,299          |
|  | 15967     | 24164   | REWIND GENERATOR 1 STATOR VAPP #1         | Sep-92        | Aug-94          | 820,000         | 816,861            |
|  | 16002     | 24291   | REPLACE/UPGRADE PRECIPS BOILER 1-VAPP #1  | Nov-92        | Jul-94          | 363,000         | 5,182,842          |
|  | 16003     | 89900   | REPLACE/UPGRADE PRECIPS BOILER 2-VAPP #1  | Nov-92        | Jul-94          | 363,000         | 4,836,988          |
|  | 16004     | 24294   | REPLACE/UPGRADE PRECIPS BOILER 3-VAPP #2  | Nov-92        | Jul-95          | 4,600,682       | 5,103,385          |
|  | 16005     | 13111   | REPLACE/UPGRADE PRECIPS BOILER 4-VAPP #2  | Nov-92        | Jul-95          | 4,533,120       | 5,123,827          |
|  | 16006     | 40769   | INST LOW NOX BURNERS-BOILER 1-VAPP #1     | Nov-92        | Jul-95          | 1,427,535       | 1,326,598          |
|  | 16007     | 40770   | INST LOW NOX BURNERS-BOILER 2-VAPP #1     | Nov-92        | Jul-95          | 1,385,302       | 1,241,679          |
|  | 16008     | 89900   | INST LOW NOX BURNERS-BOILER 3-VAPP #2     | Nov-92        | Jun-95          | 1,454,528       | 945,894            |
|  | 16021     | 89900   | INST LOW NOX BURNERS-BOILER 4-VAPP #2     | Nov-92        | Jul-95          | 1,454,528       | 923,825            |
|  | 16081     | 89900   | REPL BOILER #1 PRIM SUPHTR/ECONOMIZER V1  | Apr-93        | Jul-94          | 363,000         | 1,171,633          |
|  | 16087     | 24301   | REPL CONTROLS-TURBINE 2 VAPP #2           | Apr-93        | Jun-95          | 296,000         | 382,859            |
|  | 16088     | 24300   | REPL CONTROLS-TURBINE 1 VAPP #1           | Apr-93        | Sep-94          | 296,000         | 360,833            |
|  | 16124     | 89900   | VAPP - REPLACE UNIT 1 HEATER              | Jul-93        | Aug-94          | 314,313         | 314,252            |
|  | 16125     | 89900   | VAPP - REPLACE UNIT 2 HEATER              | Jul-93        | Jul-95          | 363,000         | 301,628            |
|  | AC1001339 |         | VAPP #2 REPLACE FEEDWATER HEATER          | Apr-99        | Nov-99          | 260,000         | 281,463            |
|  | AC1001524 |         | VAPP #1 EXCITATION SYSTEM                 | Aug-99        | Sep-99          | 440,000         | 447,960            |
|  | AC1001657 |         | VAPP #2 BLR 4 NEURAL NETWORK              | Nov-99        | Sep-00          | 400,000         | 166,695            |
|  | AFO00077  |         | VAPP ASH SYS CONTROLS                     | Mar-96        | Feb-97          | 300,000         | 291,927            |
|  | AFO00222  |         | VAPP # 2 LOW NOX BURNERS BOILER 3         | Oct-93        | Sep-96          | 1,454,528       | 266,902            |

\* Projects designated as "UC" are under construction. Total expenditures are not available for these projects.

**Question - 13 Dates of Low-Nox Burner (LNB) Retrofits**

| Plant | Unit | Description         | Date   |
|-------|------|---------------------|--------|
| OCP   | 7    | Install LNB         | May-92 |
| VAP   | 1    | Install LNB         | May-94 |
| VAP   | 2    | Install LNB         | Jun-94 |
| OCP   | 8    | Install LNB         | Apr-95 |
| VAP   | 3    | Install LNB         | May-95 |
| VAP   | 4    | Install LNB         | Jun-95 |
| PIP   | 3    | Install LNB         | May-01 |
| VAP   | 3    | Install LNB         | Oct-01 |
| VAP   | 4    | Install LNB         | Oct-01 |
| OCP   | 7    | Install LNB and OFA | Feb-02 |
| VAP   | 1    | Install LNB         | Apr-02 |
| VAP   | 2    | Install LNB         | Apr-02 |
| PIP   | 6    | Install LNB         | Jun-02 |
| OCP   | 8    | Install LNB and OFA | Feb-03 |
| PIP   | 5    | Install LNB         | Mar-03 |
| PIP   | 4    | Install LNB         | Oct-03 |

**Question 18 - Economizer, Reheater and Superheater Replacement Dates**

| Plant | Unit | Description                               | Date   |
|-------|------|---|--------|
| VAPP  | 3    | Replace primary superheater/economizer    | Oct-87 |
| OCPP  | 6    | Replace boiler reheater                   | Jul-88 |
| OCPP  | 6    | Replace boiler superheater front pendants | Jul-88 |
| VAPP  | 4    | Replace primary superheater/economizer    | Jun-89 |
| VAPP  | 2    | Replace primary superheater/economizer    | Jun-91 |
| OCPP  | 7    | Replace economizer                        | May-92 |
| PIPP  | 6    | Replace reheater section                  | Feb-93 |
| PIPP  | 5    | Replace reheater section                  | Feb-93 |
| PIPP  | 4    | Replace economizer tubes                  | Jun-93 |
| VAPP  | 1    | Replace primary superheater/economizer    | May-94 |
| PIPP  | 6    | Replace high temp superheater tubes       | Oct-94 |
| PIPP  | 5    | Replace high temp superheater tubes       | Feb-95 |
| OCPP  | 8    | Replace economizer                        | Apr-95 |
| OCPP  | 8    | Replace reheater tubes                    | Apr-95 |
| PIPP  | 3    | Replace low temp superheater tubes        | Jul-97 |
| PIPP  | 4    | Replace low temp superheater tubes        | Nov-98 |
| PIPP  | 8    | Replace reheater tubes and supports       | Feb-99 |
| PIPP  | 7    | Replace reheater tubes and supports       | Feb-00 |
| PPPP  | 1    | Replace high temp superheater             | May-00 |
| OCPP  | 6    | Replace economizer                        | Jun-01 |
| OCPP  | 5    | Replace economizer                        | Apr-02 |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5

DATE: February 23, 2001

SUBJECT: Potential Major Modifications at Wisconsin Electric Power Company  
Facilities

FROM: George Czerniak, Chief *W. MacDowell for ETC*  
Air Enforcement and Compliance Assurance Branch

TO: Sandra Lee, Chief  
Multimedia Branch II, Section 4  
Office of Regional Counsel

Preliminary review of Wisconsin Electric Power Company's (WEPCO) response to an EPA Request for Information issued pursuant to section 114 of the Clean Air Act, indicates that WEPCO may have undertaken several major modifications without appropriate environmental review.

On December 7, 2000, U.S. EPA issued a Request for Information to WEPCO concerning modifications at several of their facilities located in Wisconsin and Michigan. On February 16, 2001, WEPCO submitted its response to that request. Preliminary review by my staff shows 16 potential major modifications at five WEPCO power plants. The documents submitted by WEPCO indicate that it spent more than \$95 million dollars on these 16 major projects. Attached is a spreadsheet summarizing these potential major modifications.

An additional section 114 request is being prepared to seek more detailed information from WEPCO to more clearly define potential PSD violations at the WEPCO facilities.

Attachment

cc: Cheryl Newton

EPA\_WEPCO000564

EXHIBIT 1

EPA5GEN018772

- Exhibit G -

# WEPCO-Potential Major Modifications

## Preliminary Recovered Generation & Potential Emissions Increase Calculation

|  | Cost        |             | MWh lost<br>Prev 2 years | NOx Emis<br>Increase | SO2 Emis<br>Increase |
|--|-------------|-------------|--------------------------|----------------------|----------------------|
| 5 uncompleted improvements to Oak Creek #6<br>Replace economizer   | \$3,650,000 | \$3,650,000 | 15,649.20                | 22.41                | 144.48               |
| 6 May 1992 improvement to Oak Creek #7 (320 MW)<br>Replace economizer  | \$2,990,387 | \$2,990,387 | 19,033.60                | 66.29                | 170.04               |
| 7 Jul/ Sep 95 improvements to Oak Creek #8 (336 MW)<br>Replace economizer  | \$1,883,202 |             | 11,998.56                |                      |                      |
| Replace reheat tubing  | \$650,069   |             | 143,031.84               |                      |                      |
| Total Cost   |             | \$2,533,271 | 155,030.40               | 266.66               | 662.82               |
| <b><u>Pleasant Prairie</u></b>   |             |             |                          |                      |                      |
| 8 Jun 2000 improvement to Pleasant Prairie #2 (650 MW)<br>Replace high temperature superheater                   | \$5,421,036 | \$5,421,036 | 0.00                     |                      |                      |
| <b><u>Port Washington Plant</u></b>  |             |             |                          |                      |                      |
| 9 Jul 1998 improvements to Port Washington #1 (85 MW)<br>Reheat tubes  | \$947,697   | \$947,697   | 87,746.90                | 212.12               | 1,279.55             |
| 10 Jan 2000 improvement to Port Washington #1<br>Replace SCR tubes<br>Replace front waterwalls<br>Replace Platns | \$1,697,194 | \$1,697,194 | 6,609.60                 | 15.98                | 96.38                |
| 11 May 1999 improvements to Port Washington #2 (85 MW)<br>Reheat tubes   | \$850,930   | \$850,930   | 19,195.55                | 39.04                | 236.79               |

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EPA5GEN018774

# WEPCO-Potential Major Modifications

## Preliminary Recovered Generation & Potential Emissions Increase Calculation

|   | Cost         |              | MWh lost<br>Prev 2 years | NOx Emis<br>Increase<br>(tons) | SO2 Emis<br>Increase<br>(tons) |
|---|--------------|--------------|--------------------------|--------------------------------|--------------------------------|
| <b><u>Oak Creek Plant</u></b>   |              |              |                          |                                |                                |
| 1 Aug 1982 Improvement to Oak Creek #5 (273 MW)<br>Replace Economizer | \$1,657,260  | \$1,657,260  | 978,042.24               | 1,473.47                       | 9,501.34                       |
| 2 Jun 1989 Improvements to Oak Creek #5                               |              |              |                          |                                |                                |
| Upgrade unit controls & monitor systems                               | \$6,284,446  |              | 65,050.44                |                                |                                |
| Replace ID and FD fans liquid rheostats                               | \$2,409,237  |              | 25,427.22                |                                |                                |
| Replace ID Fans   | \$1,650,495  |              | 31,272.15                |                                |                                |
| Conversion to Direct Fire   | \$10,908,423 |              |                          |                                |                                |
| Replace Boiler Convection HRA   | \$3,260,243  |              |                          |                                |                                |
| Replace Boiler penthouse Tubing & Structure                           | \$2,778,603  |              | 96,595.59                |                                |                                |
| Replace Front Water Wall up to Intern. header                         | \$2,438,537  |              |                          |                                |                                |
| Total   |              | \$29,729,984 |                          | 218,345.40                     | 315.90                         |
|   |              |              |                          |                                | 2,038.88                       |
| 3 uncompleted improvements to Oak Creek #5                            |              |              |                          |                                |                                |
| Replace economizer  | \$3,650,000  | \$3,650,000  | 35,361.69                | 49.12                          | 316.75                         |
| 4 Jun 1989 improvements to Oak Creek #6 (276 MW)                      |              |              |                          |                                |                                |
| Upgrade Unit Controls   | \$8,276,297  |              | 2,622.00                 |                                |                                |
| replace FD & ID fan rheostat  | \$2,457,264  |              | 23,793.96                |                                |                                |
| Conversion to Direct Fire   | \$12,874,670 |              |                          |                                |                                |
| Replace Steam Air preheater   | \$1,066,467  |              |                          |                                |                                |
| Replace Boiler Convection HRA   | \$3,941,664  |              |                          |                                |                                |
| Replace Boiler Penthouse tubing & Structure                           | \$2,977,716  |              |                          |                                |                                |
| Replace Boiler Waterwall up to Intermed. Header                       | \$2,472,353  |              | 23,172.96                |                                |                                |
| Replace Boiler Reheater   | \$2,331,786  |              | 28,513.56                |                                |                                |
| Replace Boiler Superheater Pendants                                   | \$1,092,201  |              | 80,006.88                |                                |                                |
| Total Cost  |              | \$37,490,418 |                          | 158,109.36                     | 237.67                         |
|   |              |              |                          |                                | 1,532.58                       |

EPA WEPCO000568

EPA5GEN018773



## WEPCO-Potential Major Modifications

## Preliminary Recovered Generation &amp; Potential Emissions Increase Calculation

|  | Cost                     |             | MWh lost<br>Prev 2 years |            | NOx Emis<br>Increase | SO2 Emis<br>Increase |
|--|--------------------------|-------------|--------------------------|------------|----------------------|----------------------|
| 5 uncompleted improvements to Oak Creek #6<br>Replace economizer   | \$3,650,000              | \$3,650,000 | 15,649.20                | 15,649.20  | 22.41                | 144.48               |
| 6 May 1992 improvement to Oak Creek #7 (320 MW)<br>Replace economizer  | \$2,990,387              | \$2,990,387 | 19,033.60                | 19,033.60  | 66.29                | 170.04               |
| 7 Jul/ Sep 95 improvements to Oak Creek #8 (336 MW)<br>Replace economizer<br>Replace reheat tubing<br>Total Cost | \$1,883,202<br>\$650,069 |             | 11,998.56<br>143,031.84  |            |                      |                      |
|  |                          | \$2,533,271 |                          | 155,030.40 | 266.66               | 662.82               |
| <b><u>Pleasant Prairie</u></b>   |                          |             |                          |            |                      |                      |
| 8 Jun 2000 improvement to Pleasant Prairie #2 (650 MW)<br>Replace high temperature superheater                   | \$5,421,036              | \$5,421,036 | 0.00                     |            |                      |                      |
| <b><u>Port Washington Plant</u></b>  |                          |             |                          |            |                      |                      |
| 9 Jul 1998 improvements to Port Washington #1 (85 MW)<br>Reheat tubes  | \$947,697                | \$947,697   | 87,746.90                | 87,746.90  | 212.12               | 1,279.55             |
| 10 Jan 2000 improvement to Port Washington #1<br>Replace SCR tubes<br>Replace front waterwalls<br>Replace Platns | \$1,697,194              | \$1,697,194 | 6,609.60                 | 6,609.60   | 15.98                | 96.38                |
| 11 May 1999 improvements to Port Washington #2 (85 MW)<br>Reheat tubes   | \$850,930                | \$850,930   | 19,195.55                | 19,195.55  | 39.04                | 236.79               |

EPA5GEN018774

## WEPCO-Potential Major Modifications

## Preliminary Recovered Generation &amp; Potential Emissions Increase Calculation

|   | Cost        |                 | MWh lost<br>Prev 2 years |              | NOx Emis<br>Increase | SO2 Emis<br>Increase |
|---|-------------|-----------------|--------------------------|--------------|----------------------|----------------------|
| 12 Jun 2000 Improvements to Port Washington #3 (85MW)<br>Reheat tubes               | \$689,543   | \$689,543       | 18,082.90                | 18,082.90    | 37.83                | 229.40               |
| 13 Mar 1998 Improvements to Port Washington #4 (85 MW)<br>Reheat tubes              | \$843,015   | \$843,015       | 67,497.20                | 67,497.20    | 139.68               | 689.08               |
| <b><u>Presque Isle Plant</u></b>  |             |                 |                          |              |                      |                      |
| 14 Jun 1999 improvements to Presque Isle #7 (94 MW)<br>Reheat tube replacement      | \$1,340,585 | \$1,340,585     | 63,499.60                | 63,499.60    | 184.10               | 226.29               |
| <b><u>Valley Plant</u></b>  |             |                 |                          |              |                      |                      |
| 15 Jun 1991 improvements to Valley #1 (151MW)<br>Primary Superheater<br>Economizer  | \$1,040,325 | \$1,040,325     | 0.00                     |              |                      |                      |
| 16 Dec 1987 improvements to Valley #2 (151 MW)<br>Primary Superheater<br>Economizer | \$1,053,876 | \$1,053,876     | 184.22                   | 184.22       | 0.74                 | 2.46                 |
| Grand Totals  |             | \$95,585,521.00 |                          | 1,842,203.64 | 3,060.27             | 17,124.37            |

|  | Project Cost | Cost<br>Total Cost |
|--|--------------|--------------------|
| <b>Oak Creek Plant</b>   |              |                    |
| 1 Aug 1982 Improvement to Oak Creek #5 (273 MW)<br>Replace Economizer                          | \$1,657,260  | \$1,657,260        |
| 2 Jun 1989 Improvements to Oak Creek #5<br>Upgrade unit controls & monitor systems             | \$8,284,446  |                    |
| Replace ID and FD fans liquid rheostats  | \$2,409,237  |                    |
| Replace ID Fans  | \$1,650,495  |                    |
| Conversion to Direct Fire  | \$10,906,423 |                    |
| Replace Boiler Convection HRA  | \$3,260,243  |                    |
| Replace Boiler penthouse Tubing & Structure  | \$2,778,603  |                    |
| Replace Front Water Wall up to Intern. header  | \$2,438,537  |                    |
| Total  |              | \$29,729,984       |
| 3 uncompleted improvements to Oak Creek #5<br>Replace economizer                               | \$3,650,000  | \$3,650,000        |
| 4 Jun 1989 Improvements to Oak Creek #6 (276 MW)<br>Upgrade Unit Controls                      | \$8,276,297  |                    |
| replace FD & ID fan rheostat   | \$2,457,264  |                    |
| Conversion to Direct Fire  | \$12,874,670 |                    |
| Replace Steam Air preheater  | \$1,066,467  |                    |
| Replace Boiler Convection HRA  | \$3,941,664  |                    |
| Replace Boiler Penthouse tubing & Structure  | \$2,977,716  |                    |
| Replace Boiler Waterwall up to Interned. Header  | \$2,472,353  |                    |
| Replace Boiler Reheater  | \$2,331,786  |                    |
| Replace Boiler Superheater Pendants  | \$1,092,201  |                    |
| Total Cost   |              | \$37,490,418       |
| 5 uncompleted improvements to Oak Creek #6<br>Replace economizer                               | \$3,650,000  | \$3,650,000        |
| 6 May 1992 improvement to Oak Creek #7 (320 MW)<br>Replace economizer                          | \$2,990,387  | \$2,990,387        |
| 7 Ju/ Sep 95 improvements to Oak Creek #8 (336 MW)<br>Replace economizer                       | \$1,883,202  |                    |
| Replace reheat tubing  | \$650,069    |                    |
| Total Cost   |              | \$2,533,271        |
| <b>Pleasant Prairie</b>  |              |                    |
| 8 Jun 2000 improvement to Pleasant Prairie #2 (650 MW)<br>Replace high temperature superheater | \$5,421,036  | \$5,421,036        |

\*Note - This list is broader than the actual identified violations.

|  | Project Cost | Cost<br>Total Cost |
|--|--------------|--------------------|
| <b><u>Port Washington Plant</u></b>  |              |                    |
| 9 Jul 1998 Improvements to Port Washington #1 (85 MW)<br>Reheat tubes  | \$947,697    | \$947,697          |
| 10 Jan 2000 improvement to Port Washington #1<br>Replace SCR tubes<br>Replace front waterwalls<br>Replace Platns | \$1,697,194  | \$1,697,194        |
| 11 May 1999 improvements to Port Washington #2 (85 MW)<br>Reheat tubes   | \$850,930    | \$850,930          |
| 12 Jun 2000 Improvements to Port Washington #3 (85MW)<br>Reheat tubes  | \$689,543    | \$689,543          |
| 13 Mar 1998 improvements to Port Washington #4 (85 MW)<br>Reheat tubes   | \$843,015    | \$843,015          |
| <b><u>Presque Isle Plant</u></b>   |              |                    |
| 4 Jun 1999 improvements to Presque Isle #7 (94 MW)<br>Reheat tube replacement                                    | \$1,340,585  | \$1,340,585        |
| <b><u>Valley Plant</u></b>   |              |                    |
| 15 Jun 1991 improvements to Valley #1 (151MW)<br>Primary Superheater<br>Economizer                               | \$1,040,325  | \$1,040,325        |
| 16 Dec 1987 Improvements to Valley #2 (151 MW)<br>Primary Superheater<br>Economizer                              | \$1,053,876  | \$1,053,876        |
| Grand Totals   |              | \$95,585,521.00    |

te - This list is broader than the actual identified violations.

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**WE ENERGIES**  
**BACT at Units w/ Capital Projects vs. Consent Decree**

**Emission Reduction Totals**

**Michigan Reductions**

|                          | <b>NOx</b> | <b>SO2</b> |
|--------------------------|------------|------------|
| BACT                     | 1,285      | 1,488      |
| Under the Consent Decree | 5,551      | 5,369      |

**Wisconsin Reductions**

|                          | <b>NOx</b> | <b>SO2</b> |
|--------------------------|------------|------------|
| BACT                     | 18,858     | 51,519     |
| Under the Consent Decree | 28,221     | 64,432     |

**Total Michigan and Wisconsin Reductions**

|                          | <b>NOx</b> | <b>SO2</b> |
|--------------------------|------------|------------|
| BACT                     | 20,143     | 53,007     |
| Under the Consent Decree | 33,772     | 69,801     |

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**Presque Isle, Michigan**  
Potential violation at Unit 7.

**Unit 7 Emissions**

|                                     | NOx   | SO2   |
|-------------------------------------|-------|-------|
| Unit 7 - 2001 Emissions             | 1,538 | 1,741 |
| BACT                                | 253   | 253   |
| Reductions in emissions from Unit 7 | 1,285 | 1,488 |

**Plant-wide Emissions**

|  | NOx    | SO2    |
|--|--------|--------|
| Plant-wide 2001 Emissions                    | 12,062 | 18,322 |
| Projected emissions under the Consent Decree | 6,511  | 12,953 |
| Reductions in emissions from Consent Decree  | 5,551  | 5,369  |

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**Oak Creek, Wisconsin**

Potential violations at Units 5-8.

**Units 5-8 (Plant-wide)**

|  | NOx   | SO2    |
|--|-------|--------|
| Units 5-8 2001 Emissions               | 9,551 | 19,994 |
| BACT                                   | 2,651 | 2,651  |
| Reductions in emissions from Units 5-8 | 6,900 | 17,343 |

**Overall Plant-wide Emissions**

|  | NOx   | SO2    |
|--|-------|--------|
| Plant-wide 2001 Emissions                    | 9,551 | 19,994 |
| Projected emissions under the Consent Decree | 1,507 | 1,507  |
| Reductions in emissions from Consent Decree  | 8,044 | 18,487 |

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**Pleasant Prairie, Wisconsin**

Potential violation at Unit 2

**Unit 2**

|                                     | NOx    | SO2    |
|-------------------------------------|--------|--------|
| Unit 2 - 2001 Emissions             | 10,678 | 16,081 |
| BACT                                | 1,898  | 1,898  |
| Reductions in emissions from Unit 2 | 8,780  | 14,183 |

**Overall Plant-wide Emissions**

|  | NOx    | SO2    |
|--|--------|--------|
| Plant-wide 2001 Emissions                    | 21,335 | 32,130 |
| Projected emissions under the Consent Decree | 3,793  | 3,793  |
| Reductions in emissions from Consent Decree  | 17,542 | 28,337 |

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**Valley, Wisconsin**

Potential violation at Units 1-2

**Units 1-2**

|  | NOx   | SO2   |
|--|-------|-------|
| Units 1-2 2001 Emissions               | 1,850 | 7,538 |
| BACT                                   | 352   | 352   |
| Reductions in emissions from Units 1-2 | 1,498 | 7,186 |

**Overall Plant-wide Emissions**

|  | NOx   | SO2    |
|--|-------|--------|
| Plant-wide 2001 Emissions                    | 3,586 | 14,634 |
| Projected emissions under the Consent Decree | 3,197 | 10,399 |
| Reductions in emissions from Consent Decree  | 389   | 4,235  |

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**Port Washington, Wisconsin**

Potential violation at Units 1-4

**Units 1-4 (Plant-wide)**

|  | NOx   | SO2    |
|--|-------|--------|
| Units 1-4 2001 Emissions               | 2,246 | 13,373 |
| BACT                                   | 566   | 566    |
| Reductions in emissions from Units 1-2 | 1,680 | 12,807 |

**Overall Plant-wide Emissions**

|  | NOx   | SO2    |
|--|-------|--------|
| Plant-wide 2001 Emissions                    | 2,246 | 13,373 |
| Projected emissions under the Consent Decree | 0     | 0      |
| Reductions in emissions from Consent Decree  | 2,246 | 13,373 |

we energies

231 W. Michigan Street  
Milwaukee, WI 53203  
www.we-energies.com

## VIA ELECTRONIC FILING

October 21, 2005

Ms. Christy L. Zehner  
Secretary to the Commission  
Public Service Commission of Wisconsin  
Post Office Box 7854  
Madison, WI 53707-7854

Dear Ms. Zehner:

**Oak Creek Power Plant – Units 5 and 6  
Main Steam Stop and Control Valve Replacement**

Pursuant to § 196.49, Wis. Stats., and § PSC 112.05(1)(b), Wis. Adm. Code, Wisconsin Electric Power Company, d/b/a We Energies (“Wisconsin Electric” or “the Company”), makes application for authority to replace the high-pressure turbine main steam stop and control valves on Unit 5 (262 MW) and Unit 6 (265 MW) at the Oak Creek Power Plant located in the city of Oak Creek, Milwaukee County, Wisconsin.

***Reason for the Project***

The high-pressure turbine main steam stop and control valves on Units 5 and 6 at Oak Creek are original equipment that was installed in 1959 and 1961 respectively. The equipment has experienced maintenance problems and failures that have affected the availability and operation of the generating units. These failures are the result of a metallurgical process known as “creep” which affects a wide range of metals operated above 1050 degrees Fahrenheit.

The plant has experienced occurrences of the control valves becoming stuck, causing the units to be taken out of service or preventing them from returning to service in order to make repairs. The most serious of these incidents occurred in 2000 and 2003. In both cases the outages to repair the equipment were in excess of two weeks.

Additional major repairs that have required long outages have been related to cracks found in the stop valve bodies. The most extensive repair of this type occurred in 1997, and it required the unit to be out of service for twelve weeks. Since that time, other cracks have occurred and have required outages of two to three weeks to repair. Repairs to these valves are labor-intensive.

- Exhibit H -

Because these valves have been previously repaired by grinding out the cracks, additional repairs in these areas may not be feasible. These failures are typical of those where creep is experienced on similar equipment of this vintage throughout the power generation industry. It should be noted that the effects of creep cannot be reversed on components of the size and geometry used at the Oak Creek Power Plant.

In the mid-1980s reliability and life assessment studies were performed on the units at Oak Creek. These failure mechanisms were identified during the study, and the original equipment manufacturer predicted that problems would appear in approximately fifteen years based on the large castings exhibiting creep due to prolonged service at 2400 psig and 1050 degrees Fahrenheit. The time at that temperature has caused irreversible material degradation and internal cracking.

The plant has experienced 1,674 hours of unit restrictions due to the failure of the steam stop and control valve equipment over the last five years. The estimated incremental fuel and purchased power cost during that time period related to these equipment failures has been approximately \$10 million, or \$2 million per year. The cost of similar failures in the future will be significantly increased due to the higher natural gas prices and related cost of purchased power. Using the 2005 around-the-clock average cost of replacement power as determined in the Midwest Independent System Operator (MISO) market of \$52 per megawatt hour (as compared to the variable cost of fuel at Oak Creek Units 5 and 6 of \$12 per megawatt hour), the estimated incremental fuel and purchased power cost using historical average experience of 335 hours of unit restrictions grows to \$3.5 million per year.

The risk of prolonged forced outages due to these valves increases with time. Therefore, it is reasonable to expect the average cost of forced outages to grow in the future. Further, there is a growing risk that the steam stop and control valve equipment will reach the point where additional failures will be unable to be repaired. Due to the 12-14 month lead time required to manufacture replacement equipment, the estimated incremental fuel and purchased power cost of a non-repairable failure would be between \$80 to \$90 million per unit using the current MISO pricing.

In summary, the combination of historical forced outages caused by failures of this equipment, results of engineering life-cycle studies, and the increased risk of future failures indicate we have exceeded the recommended replacement interval. The increased cost of these forced outages dictate the need to replace the main steam stop and control valves on these units as the most cost effective solution.

### ***Project Schedule***

Wisconsin Electric proposes to replace the main steam stop and control valves on both Units 5 and 6 at Oak Creek Power Plant. The Unit 6 valves will be replaced during the already scheduled eight week outage in March-May, 2007. The Unit 5 valves will be replaced during the

already scheduled seven week outage in January-February, 2008. Both of these outages are of sufficient duration to complete the steam stop and control valve equipment replacement.

Given the above schedule, the Company requests Commission authorization of this project no later than January, 2006.

### ***Project Cost and Financing***

Wisconsin Electric estimates the total project cost as \$14,960,500, detailed as follows:

| <u>Capital Cost</u>      | <u>Amount</u>       |
|--------------------------|---------------------|
| Equipment                | \$13,225,000        |
| Installation             | 1,100,000           |
| Engineering              | 595,500             |
| <u>Removal Cost</u>      | <u>40,000</u>       |
| Total Gross Project Cost | <u>\$14,960,500</u> |

The cost of the project will be met from internal sources and/or from the issuance and sale of securities.

### ***Description of Alternatives***

Wisconsin Electric reviewed the following two alternatives:

- Replace Unit 5 and 6 main steam stop and control valves – This is the preferred alternative described in this application. The equipment would be identical in function and would require a minimum of redesign of ancillary equipment.
- Do nothing – The consequences of not replacing the main steam stop and control valves are the continuance of forced outages causing significant unit restrictions and higher replacement power costs, and the increasing risk of non-repairable failure resulting in an extended unit outage (12-14 months).

### ***Effect of the Project on Cost of Operation and Reliability of Service***

Wisconsin Electric believes that the proposed project is the most advantageous means of discharging its obligation as a public utility. Replacing the main steam stop and control valves on the Oak Creek units will maintain the efficiency and reliability of these generating units. It will not provide facilities in excess of present and probable future requirements.

Ms. Christy L. Zehner  
October 21, 2005  
Page 4

***Entities Affected by the Project***

No other entities are affected by the proposed project.

***Environmental Screening Information***

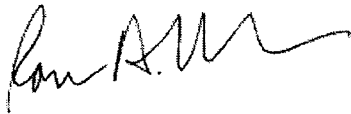
Replacements of plant equipment such as described in this application are categorized as Type III actions under § PSC 4.10(3), Wis. Adm. Code, which does not normally require an environmental screening or preparation of an environmental impact statement.

***Flood Hazard Exposure/Impact***

The location of the proposed facilities is not within a flood hazard area.

If you have any questions concerning this filing, please contact Mr. Paul Farron at (414) 221-3958.

Very truly yours,

A handwritten signature in black ink, appearing to read "Roman A. Draba". The signature is fluid and cursive, with a long horizontal stroke at the end.

Roman A. Draba  
Vice President, Regulatory Affairs and Policy



**we energies**

231 W. Michigan Street  
Milwaukee, WI 53203  
www.we-energies.com

January 11, 2006

Ms. Terri Kosobucki  
610 N. Whitney Way  
Madison, WI 53705-2729

**Application of Wisconsin Electric Power Company for Authority  
To Replace the High-Pressure Turbine Main Steam Stop and  
Control Valves on Units 5 and 6 at the Oak Creek Power Plant  
PSCW Docket No. 6630-CE-295**

Dear Ms. Kosobucki:

Attached is Wisconsin Electric Power Company's (We Energies or the Company) response to your data request in this docket, dated December 2, 2005. The response is presented in question and answer format with attachments supporting individual responses. If you require additional information or explanation, please contact Mr. David Butschli at (414) 221-2550.

Sincerely,

A handwritten signature in cursive script that reads "Paul Farron".

Paul Farron  
Manager – Regulatory Affairs & Policy  
Construction Activities

Attachments

- Exhibit I

**Wisconsin Electric Power Company  
Response to PSCW Data Request Dated 12-2-05  
PSCW Docket No. 6630-CE-295**

**Q1. How does this construction application relate to the decision to shut down or upgrade Oak Creek Units 5 and 6 as part of the Consent Decree agreed to with EPA?**

A. The Consent Decree requires that Oak Creek Units 5 and 6 be retired or have additional pollution control devices operational by December 31, 2012. The decision of whether to upgrade or retire the units is independent of the need to perform the valve replacements, because the consequences of not replacing these valves are the continuance of forced outages and the increasing risk of non-repairable failure resulting in an extended unit outage of 12 – 14 months.

**Q2. Have any reliability and life assessment studies been performed since the mid 1980s? If so, please provide further information on these studies.**

A. A Plant Availability Study was commissioned by Wisconsin Electric when Pleasant Prairie Unit 2 was nearing completion. The study, performed by the OEM, Allis-Chalmers, was intended to evaluate the condition/remaining life of the Company's older generating units. The results of the study were designed to provide the Company with a technical assessment of what major work would be required to continue operation of the units to assist in determining when additional new generation may be needed. Excerpts of the 1984 report on Oak Creek Units 5 and 6 are presented in Attachment A.

Additional testing of the subject equipment has been conducted since the problems were first identified in the plant availability study. Pertinent excerpts of these test reports are included as Attachments B through G. The attachments provide a chronology of the continuing testing and assessments of the metallurgy of this equipment. It must be noted that Attachments B, C, and D contemplate **only** the metallurgy of the valve body material. These reports **do not** contemplate the effects of creep on the ability of the equipment to perform its intended function.

**Attachment A - 1984, Turbine Generator Component Analysis**, was written by the OEM, Allis Chalmers, to summarize the initial assessment. This document presents a separate recommendation section for each major component: Main Stop Valves, Inlet Valves, Steam Chests, and Main Steam Strainer. The last paragraph of Main Stop Valves section E indicates that stop valve body replacements would be necessary by approximately 1992, but that additional study is recommended. Similarly, the last paragraphs of Steam Chests section E and Main Steam Strainer section E indicate replacement of the steam chests might be warranted in 2000, but also recommends additional testing.

**Attachment B – 1989 Microstructure Examination of Steam Strainer, Stop Valves and Steam Chests Unit 6**, Section 2.0, Recommendations, and Section 3.0, Introduction, describe the results of additional testing and confirm that degradation is occurring but that no serious flaws were found. Continued testing is recommended.



**Wisconsin Electric Power Company  
Response to PSCW Data Request Dated 12-2-05  
PSCW Docket No. 6630-CE-295**

**Attachment C - 1991 Material Sample Testing Oak Creek Units 5 & 6 Turbines.**

Section 5.0, Creep Damage Calculation, provides detail concerning these calculations and, based on revised creep calculations, delays the time at which significant creep damage should occur until after 2020. Again, it must be noted that only the casting material is being discussed. The assessment does not contemplate the effects of creep on mating surfaces such as valve seats or on valve components of dissimilar metal. Additional information is provided on page 3 in sections 1.0, 2.0, and 3.0.

**Attachment D - 1997 Metallurgical Analysis Left Side Stop Valve, Unit 6.** Test samples were removed during crack repairs on this valve. The cracks were determined to be caused by internal flaws within the original body material. The repairs were extensive and were done during an already-scheduled long unit outage; however, the repairs did extend the outage by several weeks. These tests results corroborate the 1991 test results and indicate that significant material degradation due to creep should not become a major concern until after 2020.

**Attachment E - 1998 Spring Unit 5 Outage Inspection Report.** Various small cracks were repaired and a number of damaged valve stems were replaced.

**Attachment F - 1999 Spring Unit 6 Outage Inspection Report.**

**Attachment G - 2001 Spring Unit 6 Outage Inspection Report.**

**Attachment H - Various Notifications.** Since 2001, the Company has used its own trades people to perform the valve maintenance and repair. Their findings are not published in any formal manner. For that reason, we are providing excerpts from entries made in what might be referred to as an outage log. These entries are written by the people performing the work and are intended to provide the status of the repairs and maintenance for use by the next working shift and vary widely in detail and quality.

- Q3. Please provide a copy of any analysis and/or recommendation from the Original Equipment Manufacturer indicating that these valves require replacement.**
- A. Please refer to Attachment A. As stated previously in this document, it must be noted that this report focuses on the condition of the valve material and does not attempt to predict how the ongoing creep will affect valve operation.
- Q4. Has Wisconsin Electric Power Company (WEPCO) replaced stop and/or control valves at any of its other units? If so, please elaborate.**
- A. No. The older turbines in the fleet, such as the Port Washington and Oak Creek North Plant units, operated at lesser steam pressures and temperatures. The Port Washington units operated at 900 °F main steam temperature and therefore were not subject to creep. The Oak Creek North Plant units operated at 1000 °F. At this temperature, creep occurs at a much slower rate than it does at 1050 °F. These units were decommissioned prior to

**Wisconsin Electric Power Company**  
**Response to PSCW Data Request Dated 12-2-05**  
**PSCW Docket No. 6630-CE-295**

the need for such replacements. Oak Creek Units 5 and 6 were the first units in the We Energies fleet to operate at the 2400 psig/1050 °F steam conditions.

**Q5. Who is the Original Equipment Manufacturer? Is this a manufacturer specific issue?**

A. Allis-Chalmers is the OEM. This is not a manufacturer-specific issue. High temperature creep damage is related to the physics of large, thick pieces of metal being subjected to high temperature and pressure steam conditions, and cycling between hot and cold conditions over time.

**Q6. Is WEPCO and/or the vendor aware of replacements at other units? Please provide a listing by type of valve (control or stop), vintage, steam conditions, and manufacturer.**

A. Allis-Chalmers provided one contact for a similar project they have recently completed, Unit 2 at the Brunner Island station of PP&L. This is a 400 MW Westinghouse unit that went into service in 1965 with 2400 psig/1000 F steam conditions. The scope of this project was essentially identical to the proposed scope for Oak Creek units 5 and 6.

The Brunner Island problems did not include large body cracks like those experienced at Oak Creek; however, the unit was plagued by problems associated with deformation of the equipment due to creep: broken and leaking seals, bent and broken valve stems, bound-up valves, etc.

PP&L changed-out these same components on their Brunner Island Unit 1 in 1992. Unit 1 is of similar size and steam conditions as unit 2 and began operation in 1960.

**Q7. Is the operation of units 5 and 6 restricted in temperature or pressure ratings as a result of the high temperature creep?**

A. The units are not restricted due to these problems and continue to operate at design steam conditions.

**Q8. How frequent are units 5 and 6 exposed to temperatures beyond the temperature and pressure ratings, and for how long? What has WEPCO done to minimize temperature and pressure occurrences?**

A. The steam temperature is held constant within a range using state of the art digital controls. Steam temperature transients do occur and these transients are the result of changes in process parameters such as coal quality variations. The typical average steam temperature across a normal 24-hour period is approximately 1050 °F with occasional brief excursions to 1060-1070 °F, as well as excursions down to 990-1000 °F.

**Wisconsin Electric Power Company**  
**Response to PSCW Data Request Dated 12-2-05**  
**PSCW Docket No. 6630-CE-295**

In general, steam pressure varies less than temperature and a typical 24-hour period will include an occasional excursion to 2410-2415 psig as well as excursions to 2390 psig. The average pressure would be close to 2400 psig. These excursions are typical of control ranges for large coal-fueled, steam/electric generating units with digital control systems.

Pressure and temperature excursions are minimized by a combination of the control systems and trained controls technicians and operators.

**Q9. Has WEPCO considered further weld repairs for these two units? Please elaborate.**

A. Weld repairs have been done and will continue to be done. Descriptions of some of the repairs, including weld repairs, are contained in the notifications and attachments included here. Creep is not addressed through weld repairs. Weld repairs only address the effects of creep on the valve bodies, which manifests itself as cracks. Some of the cracks found to date have been close to being irreparable. The longer these valves operate, the greater the likelihood that irreparable defects will occur. Should an irreparable defect occur, a unit outage of a year or more could result. It is beyond the limits of current predictive models and non-destructive examination methods to predict with precision a failure so extensive that repair will not be an option.

**Q10. On page one of the application, there is mention of a large number of hours to repair the control valves in 2000 and 2003. Was any repair work done to the valve bodies at that time? Please provide further clarification of how these failures are related to the high temperature creep problem.**

A. Work was indeed done to the valve bodies. In 2000, unit 5 was taken off line due to control valve problems. Machining of the valve body was required to restore the internal mating and sealing surfaces.

In 2003, unit 5 was again taken off line because the #3 control valve could not be closed more than approximately half way. Machining of two valve bodies was required to restore the internal mating and sealing surfaces and to machine new internal threads.

In both of the cases described above, the operational problems experienced were the result of distortions of the steam chest over time due to creep. The clearances between internal valve components are very tight and mating surfaces are machined to precise tolerances. Slight distortions of the castings, the result of creep, adversely affect these clearances and mating surfaces. This allows the components to work loose, especially when exposed to the forces of the high velocity steam flowing over, through, and past the components. These problems make the valves, and hence the unit, inoperable.

**Wisconsin Electric Power Company  
Response to PSCW Data Request Dated 12-2-05  
PSCW Docket No. 6630-CE-295**

**Q11. In reference to page one of the application, was the repair work on the stop valve that occurred in 1997 part of a major outage? What subsequent work on these stop valves was part of a scheduled outage or an unscheduled outage?**

A. The repair work in 1997 occurred during a major outage; however, the valve work did extend the outage by several weeks. Information presented below indicates whether subsequent work occurred during an outage and also refers to attached records (Attachments F, G, and H) that describe the work. Attachments F and G are actual reports, prepared by the contractor, which are often done as part of outage close-outs. The notifications in Attachment H are more of a day-to-day or shift-to-shift chronicle of activities by the people doing the work.

| <u>Repair</u>                           | <u>Outage</u> | <u>Non-outage</u> |
|---|---------------|-------------------|
| May-05, unit 5, #2 main stop valve      |               | 10193004          |
| Mar-02, unit 5, #2 main stop valve      | X-no record   |                   |
| Mar-05, unit 6, #1 & 2 main stop valves | 10205278      |                   |
| Dec-03, unit 6, #1 & 2 main stop valves | 10178110      |                   |
| May-02, unit 6, #2 main stop valve      | X-no record   |                   |
| Apr-01, unit 6, both main stop valves   | Attachment G  |                   |
| Jun-00, unit 6, #1 main stop valve      |               | 10219636          |
| Apr-99, unit 6, both main stop valves   | Attachment F  |                   |

**Q12. In reference to page two of the application, and the 1674 hours of restrictions, please provide a further breakdown of the hours by valve type, date, and type of problem.**

A. Some clarification is in order. The application erroneously mentions "1,674 hours of unit restrictions" on page two. The application should have stated that the 1,674 hours represent unit outages. Oak Creek Units 5 and 6 are not, in any way, restricted as a result of the high temperature creep induced problems that are the subject of the application. Following is a breakdown of those hours by event.

| <u>Year</u> | <u>Unit</u> | <u>Component</u>  | <u>Problem</u>  | <u>Hours</u> |
|-------------|-------------|-------------------|-----------------|--------------|
| 2001        | 6           | Main Stop Valves  | Binding/leakage | 159          |
| 2002        | 6           | Main Stop Valve 2 | Severe leakage  | 510          |
| 2003        | 5           | Cntrl Vlvs 1 & 3  | Would not close | 374          |
| 2003        | 6           | Main Stop Valve   | Binding/leakage | 225          |
| 2005        | 5           | Main Stop Valve   | Binding valve   | 24           |
| 2005        | 6           | Main Stop Valve   | Severe leakage  | <u>374</u>   |

Total 1666\*

\* An outage of 8 hours against unit 6 was erroneously included in the original 1674 hour total cited in the application.

**Wisconsin Electric Power Company  
Response to PSCW Data Request Dated 12-2-05  
PSCW Docket No. 6630-CE-295**

**Q13. Please provide copies of the inspection and maintenance reports for the stop and control valves from all scheduled outages and forced outages.**

A. Please refer to Attachments A through H.

**Q14. Please provide a listing of permits or approvals required for this project by other units of government.**

A. No other permits or approvals are required.



## Unit Emissions Report

### June 8, 2006

Your query will return data for 1 facilities and 4 units.

You specified: **Year(s):** 2004 **Program(s):** All **Facility:** South Oak Creek

| State        | Facility Name   | Facility ID (ORISPL) | Unit ID | Associated Stacks | Year | Program (s) | Operating Time | # of Months Reported | SO <sub>2</sub> Tons | Avg. NO <sub>x</sub> Rate (lb/mmBtu) | NO <sub>x</sub> Tons | CO <sub>2</sub> Tons | Heat Input (mmBtu) |
|--------------|-----------------|----------------------|---------|-------------------|------|-------------|----------------|----------------------|----------------------|--------------------------------------|----------------------|----------------------|--------------------|
| WI           | South Oak Creek | 4041                 | 5       | CS3               | 2004 | ARP         | 7,434          | 12                   | 3,241.1              | 0.17                                 | 1,282.2              | 1,579,601.1          | 15,395,703         |
| WI           | South Oak Creek | 4041                 | 6       | CS3               | 2004 | ARP         | 7,814          | 12                   | 3,350.1              | 0.17                                 | 1,322.9              | 1,621,874.9          | 15,807,750         |
| WI           | South Oak Creek | 4041                 | 7       | CS4               | 2004 | ARP         | 7,953          | 12                   | 4,588.7              | 0.14                                 | 1,429.4              | 2,160,138.1          | 21,053,979         |
| WI           | South Oak Creek | 4041                 | 8       | CS4               | 2004 | ARP         | 8,123          | 12                   | 4,585.5              | 0.14                                 | 1,433.3              | 2,168,404.7          | 21,134,555         |
| <b>Total</b> |                 |                      |         |                   |      |             |                |                      | <b>15,765.4</b>      |                                      | <b>5,467.8</b>       | <b>7,530,018.9</b>   | <b>73,391,987</b>  |

- Exhibit J -

**WISCONSIN ELECTRIC POWER COMPANY**  
**EPA 114 DATA REQUEST**  
**QUESTION NUMBER 3**

NOV-21-03 04:10 PM IMF

| Plant | W/O or I/O | Project | Description                                     | Approved Date | In-Service Date | Approved Amount | Total Expenditures |
|-------|------------|---------|---|---------------|-----------------|-----------------|--------------------|
|       | 41921      |         | OCPP - UPGRADE MONO & TRISOD PHOSPHATE FEED SYS | Feb-86        | Jun-89          | 558,272         | 533,881            |
|       | 41990      |         | OCPP #5-8 ADD GENERATOR CIRCUIT BREAKERS        | Feb-86        | Jun-89          | 1,950,864       | 2,567,221          |
|       | 12520      | 21361   | ASKAREL-FILLED TRSF REPLAC - OCPP               | Apr-86        | Jun-89          | 844,938         | 644,938            |
|       | 12670      | 21554   | CHEM FEED/BOILER WTR SYS - OCPP #5              | Sep-86        | Nov-87          | 314,000         | 307,511            |
|       | 12672      | 21552   | CHEM FEED/BOILER WTR SYS - OCPP #7              | Sep-86        | Jan-88          | 244,000         | 259,666            |
|       | 12755      | 21318   | FDWTR HTRS 57A/B - OCPP # 5                     | Nov-86        | Jul-87          | 326,824         | 329,410            |
|       | 13009      | 20693   | 88 FDWTR HTR - OCPP #8                          | Jun-87        | Apr-88          | 243,000         | 265,134            |
|       | 13013      | 21430   | FDWTR HTR - OCPP #8                             | Jun-87        | Apr-88          | 303,000         | 322,654            |
|       | 13126      | 21210   | UNITRAIN COAL SAMPLER - OCPP                    | Sep-87        | Nov-88          | 564,000         | 527,566            |
|       | 13225      | 21429   | REPLAC FDWTR HTR 7 - OCPP                       | Nov-87        | Dec-88          | 344,153         | 342,463            |
|       | 13705      | 34017   | STM AIR PREHTR TUBING - OCPP#7                  | Aug-88        | Dec-88          | 449,500         | 412,320            |
|       | 13888      | 21515   | UPGRAD TURB HYDRAULIC GOVN SYS - OCPP #5        | Nov-88        | Feb-91          | 788,877         | 838,973            |
|       | 13889      | 21592   | UPGRAD TURB HYDRAULIC GOVN SYS - OCPP #6        | Nov-88        | Mar-90          | 799,090         | 991,321            |
|       | 13929      | 21405   | OCPP #5 FLUE GAS CONDITIONING EQUIP             | Dec-88        | Jun-91          | 899,871         | 1,057,326          |
|       | 13930      | 21406   | OCPP #6 FLUE GAS CONDITIONING EQUIP             | Dec-88        | Jul-90          | 1,600,766       | 1,682,115          |
|       | 14266      | 40368   | GAS IGNITION/WARMUP-OCPP #7&8                   | Jul-89        | Dec-91          | 305,879         | 354,487            |
|       | 14325      | 34007   | OCPP #5-8 TURBINE OIL FIRE PRTCTN               | Aug-89        | Nov-90          | 479,977         | 556,073            |
|       | 14334      | 34020   | OCPP #5-8 PROCPRESS STEAM HEADER                | Aug-89        | Dec-89          | 2,396,773       | 2,565,594          |
|       | 14799      | 21611   | SPARE GENERATOR STEP-UP TRF-OCPP #5-8           | May-90        | May-90          | 2,076,744       | 2,105,048          |
|       | 14836      | 40529   | REPL HPHSW LINE                                 | May-90        | Dec-90          | 277,422         | 283,725            |
|       | 15182      | 33971   | REPL ECONOMIZER OCPP #7                         | Dec-90        | May-92          | 3,020,782       | 2,990,387          |
|       | 15281      | 34075   | 2ND FLY ASH SILO - OCPP #7 & 8                  | Feb-91        | Dec-92          | 3,201,650       | 3,153,333          |
|       | 15408      | 40698   | INST DEMIN WASTE NEUTRALIZING TANK-OCPP         | May-91        | Feb-92          | 249,791         | 287,870            |
|       | 15577      | 89900   | REPL ECONOMIZER - OCPP#8                        | Sep-91        | Jul-95          | 2,032,256       | 1,883,202          |
|       | 15578      | 89900   | REPL REHEAT TUBING - OCPP#8                     | Sep-91        | Sep-95          | 652,062         | 650,069            |
|       | 15636      | 34083   | ZEBRA MUSSEL CHEMICAL CNTL SYS- OCPP            | Oct-91        | May-92          | 519,944         | 642,568            |
|       | 15689      | 40688   | INSTALL CEM'S OCPP #5-8                         | Dec-91        | Jun-93          | 1,158,529       | 1,257,771          |
|       | 15692      | 40635   | INSTALL LOW NOX BURNERS-OCPP # 7                | Dec-91        | May-92          | 3,735,370       | 3,759,721          |
|       | 16061      | 40635   | INST LOW NOX BURNERS-OCPP#8                     | Mar-93        | Apr-95          | 4,849,012       | 4,589,886          |
|       | 16098      | 13111   | REPL 56A FEEDWATER HEATER-OCPP #5               | Jan-95        | Dec-95          | 245,000         | 290,083            |
|       | 16114      | 44462   | REPAIRS TO CAR DUMPER-OCPP YARD                 | Jun-93        | Jul-93          | 800,635         | 802,748            |
|       | 18321      | 89900   | DUCTING REPLACEMENT OCPP #5                     | Aug-95        | Dec-95          | 630,337         | 650,917            |
|       | 16351      | 89900   | REPLACE DUCT FROM AIRHTR TO PRECIP - OCPP #6    | Jan-96        | Apr-96          | 671,671         | 693,947            |
|       | AC1000631  |         | OCPP Y BREAKWALL                                | Dec-87        | Dec-96          | 3,500,000       | 2,997,572          |
|       | AC1000903  |         | OCPP #8 HIGH EFF EXHAUSTERS                     | Sep-96        | Mar-99          | 390,000         | 411,788            |
|       | AC1000904  |         | OCPP #7 HIGH EFF EXHAUSTERS                     | Sep-96        | Jan-00          | 300,000         | 324,884            |
|       | AC1000905  |         | OCPP #5 SOOTBLOWERS                             | Feb-98        | Oct-98          | 633,800         | 646,509            |
|       | AC1000906  |         | OCPP #6 SOOTBLOWERS                             | Oct-98        | May-99          | 600,000         | 488,113            |
|       | AC1000908  |         | OCPP #8 SOOTBLOWERS                             | Jul-98        | Mar-99          | 690,000         | 676,617            |

Exhib. 6.1 K

WE Proprietary & Confidential

WEPCO 30002

**WISCONSIN ELECTRIC POWER COMPANY  
EPA 114 DATA REQUEST  
QUESTION NUMBER 3**

| Plant                         | W/O or VO | Project | Description                                 | Approved Date | In-Service Date | Approved Amount | Total Expenditures |
|-------------------------------|-----------|---------|---|---------------|-----------------|-----------------|--------------------|
| WE Proprietary & Confidential | AC1000909 |         | OCPD DUMPER BELT FEEDERS                    | Mar-98        | Apr-99          | 750,000         | 752,814            |
|                               | AC1000910 |         | OCPD WET FLY ASH UNLOADERS                  | May-98        | Nov-98          | 292,500         | 290,748            |
|                               | AC1001083 |         | OCPD #8 NEW WATER LANCES                    | Oct-98        | Jun-99          | 487,000         | 480,625            |
|                               | AC1001084 |         | OCPD #7 NEW WATER LANCES                    | Jul-99        | Jun-00          | 487,000         | 394,419            |
|                               | AC1001146 |         | OCPD #7 MILL MOTORS                         | Sep-98        | Jan-00          | 550,000         | 444,198            |
|                               | AC1001147 |         | OCPD #8 MILL MOTORS                         | Sep-98        | Mar-99          | 500,000         | 496,600            |
|                               | AC1001160 |         | OCPD DUMPER FOAM DUST SUPPRESSION           | Jan-99        | Jul-99          | 260,000         | 312,463            |
|                               | AC1001236 |         | OCPD REPLACE 51,52,73&74 AIR COMPRESSORS    | Dec-98        | Feb-00          | 403,000         | 451,987            |
|                               | AC1001253 |         | OCPD #5 PRECIP UPGRADES                     | Jul-99        | Jun-00          | 460,000         | 392,229            |
|                               | AC1001254 |         | OCPD #6 PRECIP UPGRADES                     | Dec-98        | May-99          | 375,000         | 382,828            |
|                               | AC1001270 |         | OCPD #6 AIR HEATER SOOTBLOWERS              | Nov-99        | UC *            | 350,000         |                    |
|                               | AC1001658 |         | OCPD #7 LOW NOX BURNER & OVER FIRED AIR     | Nov-99        | UC              | 10,642,000      |                    |
|                               | AC1001709 |         | OCPD #8 INSTALL ADDITIONAL WATER LANCES     | Apr-00        | UC              | 290,000         |                    |
|                               | AC1001710 |         | OCPD #8 DUCT BURNER REPLACEMENT             | Apr-00        | UC              | 280,000         |                    |
|                               | AC1001717 |         | OCPD #5 52 MILL REBUILD                     | Mar-00        | Jun-00          | 528,437         | 526,507            |
|                               | AC1001742 |         | OCPD #8 LOW NOX BURNER AND OVER FIRED AIR   | Nov-99        | UC              | 10,642,000      |                    |
|                               | AC1001744 |         | OCPD #8 AIR HEATER SOOTBLOWERS              | Apr-00        | UC              | 240,000         |                    |
|                               | AC1001749 |         | OCPD #6 FURNACE APERTURE SOOTBLOWERS        | Nov-99        | UC              | 900,000         |                    |
|                               | AC1001782 |         | OCPD #5 ECONOMIZER REPLACEMENT              | Nov-99        | UC              | 3,650,000       |                    |
|                               | AC1001783 |         | OCPD #6 ECONOMIZER REPLACEMENT              | Nov-99        | UC              | 3,650,000       |                    |
|                               | AC1001836 |         | OCPD #6 62 BALL MILL REFURBISHMENT          | Oct-00        | UC              | 1,037,000       |                    |
|                               | AC1002005 |         | OCPD HOUSE SERVICE WATER PIPING REPLACEMENT | Dec-00        | UC              | 1,890,000       |                    |
|                               | AFO00140  |         | OCPD THREE COAL BELT SCALES                 | Jul-95        | Sep-96          | 605,000         | 425,108            |
|                               | AFO00260  |         | OCPD PRB COAL BLNDG IMPROVE -DUST. COLL.    | Mar-97        | Jan-98          | 2,032,896       | 2,018,497          |
|                               | AFO00425  |         | OCPD #5 HS GENERATOR REWIND                 | Nov-97        | Feb-99          | 2,182,500       | 2,198,968          |
|                               | 15492     |         | REPLACE PCB TRANSFORMER                     | Jul-91        | Dec-94          | 264,979         | 261,057            |
|                               | 13866     |         | DIST. CONTROL SYSTEM - COMMON PLT. EQT.     | Jul-88        | Apr-82          | 629,961         | 740,496            |
| PIPP                          | 14283     | 34348   | PIPP #4 SPARE GENERATOR STATOR COILS        | Jul-89        | Aug-89          | 486,028         | 478,315            |
|                               | 14599     | 34274   | BOILER FLAME SAFEGUARD SYS-PIPP # 4         | Jan-90        | Apr-91          | 758,000         | 818,028            |
|                               | 14804     | 3427    | BOILER FLAME SAFEGUARD SYS-PIPP #3          | Jan-90        | Dec-90          | 907,322         | 915,589            |
|                               | 15549     | 34303   | NOZZLE PLATES- PIPP 5-9 & 3-4               | Sep-91        | Sep-91          | 330,000         | 334,188            |
|                               | 15690     | 40690   | INSTALL CEM'S PIPP UNITS 1-9                | Dec-91        | Oct-94          | 1,652,602       | 2,020,536          |
|                               | 15824     | 40710   | PIPP #7 BURNER MGMT SYS UPGRADE             | Apr-92        | Dec-96          | 319,873         | 337,434            |
|                               | 15825     | 40711   | PIPP #8 BURNER MGMT SYS UPGRADE             | Apr-92        | Oct-93          | 302,876         | 328,112            |
|                               | 15826     | 40712   | PIPP #9 BURNER MGMT SYS UPGRADE             | Apr-92        | May-93          | 508,000         | 470,319            |
|                               | 15990     | 34316   | REHEAT SECT-UNIT 8 BOILER-PIPP              | Oct-92        | Aug-93          | 300,000         | 296,672            |
|                               | 16074     | 20173   | REPLACE REHEAT SECTION - PIPP #5            | Mar-93        | Sep-94          | 350,000         | 256,422            |
|                               | 16075     | 44913   | REPL ECONOMIZER BOILER TUBES-PIPP #4        | Mar-93        | Jul-93          | 250,000         | 260,277            |

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**WISCONSIN ELECTRIC POWER COMPANY**  
**EPA 114 DATA REQUEST**  
**QUESTION NUMBER 3**

| Plant                         | W/O or I/O | Project                             | Description                                | Approved Date | In-Service Date | Approved Amount | Total Expenditures |
|-------------------------------|------------|-------------------------------------|--|---------------|-----------------|-----------------|--------------------|
| WE Proprietary & Confidential | 16214      | 20235                               | REPLACE HTSH WRAPPER TUBES - PIPP #5       | Mar-94        | Feb-95          | 400,000         | 321,320            |
|                               | 16215      | 20226                               | REPLACE HTSH WRAPPER TUBES - PIPP #6       | Mar-94        | Feb-95          | 400,000         | 330,292            |
|                               | 16241      | 44800                               | PIPP #7 CLASSIFIER                         | Jun-94        | Mar-96          | 400,000         | 352,098            |
|                               | 16297      | 44798                               | REPLACE CLASSIFIERS PIPP # 8               | May-95        | Aug-97          | 325,000         | 303,445            |
|                               | 16302      | 44799                               | REPLACE CLASSIFIERS PIPP # 9               | May-95        | Jul-96          | 330,000         | 344,416            |
|                               | AC1000386  |                                     | PIPP #8 BOILER REHEATER REPLACEMENT        | May-98        | Sep-99          | 1,300,000       | 1,319,450          |
|                               | AC1000582  |                                     | PIPP #6 COAL STORAGE SILOS                 | Oct-99        | Aug-00          | 1,600,000       | 1,609,396          |
|                               | AC1000860  |                                     | PIPP #5 COAL STORAGE SILOS                 | Feb-00        | UC              | 1,600,000       |                    |
|                               | AC1001049  |                                     | PIPP #1 BOILER CONTROLS                    | May-00        | UC              | 200,000         |                    |
|                               | AC1001050  |                                     | PIPP #2 BOILER CONTROLS                    | May-00        | UC              | 300,000         |                    |
|                               | AC1001143  |                                     | PIPP #3 REPLACE WATERWALL                  | Jan-99        | Apr-98          | 497,500         | 545,075            |
|                               | AC1001349  |                                     | PIPP #1 TURBINE OPENING/OVERHAUL           | Feb-99        | Apr-98          | 782,562         | 625,195            |
|                               | AC1001350  |                                     | PIPP #2 TURBINE OPENING/OVERHAUL           | Feb-99        | Aug-99          | 785,539         | 588,329            |
|                               | AC1001374  |                                     | PIPP #2 WATERWALL REPLACE.& BLR CLEANING   | Sep-00        | May-99          | 482,000         | 459,376            |
|                               | AC1001483  |                                     | PIPP #3 LOW NOX BURNERS                    | Nov-99        | UC              | 4,000,000       |                    |
|                               | AC1001536  |                                     | PIPP #1-9 FUEL OIL TANK CONTAINMENT        | Aug-00        | UC              | 780,000         |                    |
|                               | AC1001484  |                                     | PIPP #5 LOW NOX BURNER & OVER FIRED AIR    | Nov-99        | UC              | 6,500,000       |                    |
|                               | AC1001513  |                                     | PIPP #3 TURBINE OPENING/OVERHAUL           | Jun-99        | Jun-99          | 1,609,200       | 1,666,652          |
|                               | AC1001738  |                                     | PIPP #8 LOW NOX BURNER AND OVER FIRED AIR  | Nov-99        | UC              | 3,975,000       |                    |
|                               | AFO00284   |                                     | PIPP #3 LTSH BOILER TUBE REPLACEMENT       | Mar-97        | Aug-97          | 1,030,625       | 927,546            |
| AFO00286                      |            | PIPP #6 AGGLOMERATOR - INSTALLATION | Jan-97                                     | Jul-98        | 1,200,000       | 1,195,308       |                    |
| AFO00330                      |            | PIPP #4 LTSH BLR TUBE REPLACEMENT   | Apr-98                                     | Dec-98        | 1,000,000       | 1,091,572       |                    |
| AFO00333                      |            | PIPP #1-4 FABRIC FILTER PROJECT     | Jan-98                                     | Jun-99        | 19,741,000      | 22,278,417      |                    |
| AFO00363                      |            | PIPP #7 REHEAT TUBE REPLACEMENT     | May-88                                     | May-00        | 1,300,000       | 1,340,585       |                    |
| WEPCCO 30004                  | 10734      | 24566                               | GUILLOTINE AIR DAMPERS - PPPP              | Sep-81        | Jan-83          | 300,000         | 334,425            |
|                               | 11262      | 24554                               | ALT WATER SUPPLY - PPPP                    | Mar-83        | Mar-84          | 665,000         | 696,239            |
|                               | 11791      | 20062                               | BURNER MNGMNT SYS - PPPP #1                | Aug-84        | Feb-86          | 244,900         | 268,219            |
|                               | 11860      | 24498                               | GAS IGNITION CONV - PPPP                   | Oct-84        | Jan-86          | 2,967,500       | 3,019,273          |
|                               | 12255      | 24568                               | DRUM SWELL BLOWDOWN PPPP #1                | Sep-85        | Aug-86          | 283,500         | 324,671            |
|                               | 12635      | 24641                               | SOLIDS REMOVAL FACILITY - PPPP             | Aug-86        | Sep-89          | 2,484,021       | 2,963,811          |
|                               | 12922      | 24642                               | REPLAC MAKEUP WTR PIPELN - PPPP            | Apr-87        | Nov-88          | 3,907,174       | 4,183,237          |
|                               | 13033      | 24694                               | COAL HANDL SYS FDRS - PPPP                 | Jun-87        | Nov-88          | 625,500         | 911,777            |
|                               | 13446      | 24678                               | UPGRAD COAL HNDL HTG FAC - PPPP            | Apr-88        | Feb-89          | 986,000         | 1,137,764          |
|                               | 14289      | 24754                               | PPPP UNIT 2 FD FAN MOTOR REPLMNT           | Jul-89        | Jul-91          | 621,000         | 655,858            |
|                               | 14503      | 40380                               | PPPP AIR HTR WASHDOWN DRAIN LINE           | Nov-89        | Dec-90          | 350,000         | 326,666            |
|                               | 14837      | 24766                               | REPL SECONDARY AIR PREHEATER TUBE PPPP # 1 | May-90        | Apr-91          | 283,793         | 282,343            |
|                               | 15139      | 40496                               | PPPP YARD-UNITRAIN CAR DUMPER BARREL REPL  | Nov-90        | Oct-92          | 1,621,558       | 1,685,172          |
|                               | 15687      | 40686                               | INSTALL CEM'S PPPP UNITS 1 & 2             | Dec-91        | Nov-93          | 707,000         | 589,394            |

**WISCONSIN ELECTRIC POWER COMPANY**  
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**QUESTION NUMBER 3**

| Plant | W/O or I/O | Project | Description                                    | Approved Date             | In-Service Date | Approved Amount | Total Expenditures |
|-------|------------|---------|--|---------------------------|-----------------|-----------------|--------------------|
|       | 16139      | 89900   | PPPP GEN - REPLACE RAW WATER LINE              | Aug-93                    | Jan-00          | 375,000         | 337,334            |
|       | AC1000981  |         | PPPP #1 UPGRADE HIGH PRESSURE TURBINE          | Mar-98                    | Dec-98          | 5,285,000       | 5,524,076          |
|       | AC1001035  |         | PPPP #1 BOILER ECONOMIZER UPGRADE              | Aug-98                    | Feb-99          | 593,168         | 447,787            |
|       | AC1001205  |         | PPPP ASH REBURN                                | Jan-99                    | Nov-00          | 4,000,000       | 3,092,422          |
|       | AC1001279  |         | PPPP #1 REPAIR OF GENERATOR STATOR WINDING     | Oct-98                    | Mar-99          | 1,700,000       | 1,704,021          |
|       | AC1001396  |         | PPPP #1 GENERATOR PARTIAL REWIND               | Apr-99                    | Jun-00          | 1,629,500       | 1,676,946          |
|       | AC1001397  |         | PPPP #1 REPLACE HIGH TEMPERATURE SUPERHEATER   | May-99                    | Jun-00          | 5,250,000       | 5,421,036          |
|       | AC1001398  |         | PPPP #2 GEN GLOBAL EPOXY INJECTION             | Apr-99                    | Jun-99          | 1,785,000       | 1,832,675          |
|       | AC1001482  |         | PPPP #2 SELECTIVE CATALYTIC REDUCTION PROJECT  | Nov-99                    | UC              | 67,064,226      | 2,140,119          |
|       | AFO00038   |         | PPPP DCS COMPUTER UPGRADE                      | Sep-91                    | May-95          | 2,917,943       | 2,928,413          |
|       | AFO00415   |         | PPPP #1 AIR HEATER HOT SIDE SOOTBLOWERS        | Sep-97                    | Dec-98          | 970,000         | 1,014,328          |
|       | AFO00416   |         | PPPP #2 AIR HEATER HOT SIDE SOOTBLOWERS        | Sep-97                    | Jun-98          | 970,000         | 970,387            |
|       | 15406      |         | VENTILATING BOILER AIR/GAS SYSTEM              | May-91                    | Oct-93          | 964,774         | 1,202,866          |
| PWPP  | 15952      | 21764   | RESTORE PULVERIZED FUEL BIN-PWPP 3             | Sep-92                    | Sep-92          | 393,600         | 355,538            |
|       | 16284      | 89900   | GENERATOR REWIND PWPP #1                       | Feb-95                    | Jan-00          | 1,035,700       | 1,082,868          |
|       | AC1000562  |         | PWPP INST NEW COAL CRSHR & MOD EXIST STRUCTURE | Mar-99                    | Sep-00          | 490,000         | 436,693            |
|       | AC1001019  |         | PWPP #3 GENERATOR ROTOR REWIND                 | Jun-98                    | Jun-99          | 1,320,000       | 1,398,606          |
|       | AC1001149  |         | PWPP #2 AUX. POWER TRANSFORMER REPLACEMENT     | Sep-88                    | Dec-99          | 325,000         | 252,811            |
|       | AC1001418  |         | PWPP #4 GENERATOR ROTOR REWIND                 | Feb-99                    | Jul-99          | 1,220,000       | 997,343            |
|       | AFO00261   |         | PWPP # 3 REHEAT TUBES                          | Feb-98                    | Jun-00          | 690,000         | 689,543            |
|       | AFO00262   |         | PWPP # 2 REHEAT TUBES                          | Jan-98                    | May-99          | 690,000         | 850,930            |
|       | AFO00263   |         | PWPP #1 REHEAT TUBES                           | Nov-97                    | Jul-98          | 775,000         | 947,697            |
|       | AFO00264   |         | PWPP #4 REHEAT TUBES                           | Feb-98                    | Mar-98          | 690,000         | 843,015            |
|       | AFO00319   |         | PWPP #1 REPL. SCR TUBES, FRNT WTRWALLS, PLATNS | Oct-98                    | Jan-00          | 1,732,000       | 1,697,184          |
|       | AFO00325   |         | PWPP #2 REPL WATERWALL CIRCUIT PROJECTS        | May-97                    | Nov-97          | 515,701         | 720,296            |
|       | VAPP       | 5430    | 2326   | BOILER 2 SECONDARY HEATER | Aug-78          | Oct-78          | 447,000            |
| 8438  |            | 106     | CONVERT BOILERS 1 & 2 - VAPP (BALANCE DRAFT)   | Apr-74                    | Jul-79          | 2,725,000       | 2,595,919          |
| 8439  |            | 107     | CONVERT BOILERS 3 & 4 - VAPP (BALANCE DRAFT)   | Apr-74                    | Nov-79          | 2,170,000       | 2,189,792          |
| 9146  |            |         | GENERATOR ROTOR - VAPP # 2                     | Mar-76                    | Jul-77          | 654,000         | 681,857            |
| 9164  |            | 142     | SECOND SUPERHTR SEC #4 BOILER                  | Mar-76                    | Aug-77          | 300,000         | 373,784            |
| 11451 |            | 23946   | REPAIR COAL SLOS VAPP #1                       | Oct-83                    | Feb-85          | 354,854         | 354,854            |
| 11452 |            | 23947   | REPAIR COAL SLOS VAPP #2                       | Oct-83                    | Feb-85          | 314,783         | 314,783            |
| 11463 |            | 13818   | UPGRADE WATER SAMPL SYS - VAPP                 | Oct-83                    | Oct-84          | 365,000         | 371,271            |
| 11613 |            | 10083   | S03 FLUE GAS CONDITION - VAPP                  | Mar-84                    | Jul-85          | 1,975,000       | 1,953,773          |
| 12374 |            | 23921   | INSTALL 20 INCH TURB BYPASS VAPP               | Jan-86                    | Oct-88          | 560,700         | 584,908            |
| 12409 |            | 23928   | VAPP DEMINERALIZER CONT UPGRADE                | Feb-88                    | Jan-87          | 397,000         | 379,872            |
| 12808 |            | 23939   | PRIM SUPRHTR/RECON SURF-VAPP BLR 3             | Jan-87                    | Dec-87          | 1,023,000       | 1,053,876          |

WE Proprietary & Confidential

WEPCO 30005

CONFIDENTIAL

P. 06

# WISCONSIN ELECTRIC POWER COMPANY

## EPA 114 DATA REQUEST

### QUESTION NUMBER 3

| Plant                         | W/O or VO | Project | Description                               | Approved Date | In-Service Date | Approved Amount | Total Expenditures |
|-------------------------------|-----------|---------|---|---------------|-----------------|-----------------|--------------------|
| WE Proprietary & Confidential | 13449     | 24084   | ELEC ADJ SPEED DR - VAPP                  | Apr-88        | Dec-89          | 1,118,063       | 1,239,762          |
|                               | 13453     | 23982   | PRIM SUPRHTR/ECONOM SURF-VAPP BLR 4       | Apr-88        | Jun-89          | 1,218,479       | 1,219,983          |
|                               | 14118     | 24085   | VAPP ID FANS VAR SPEED DRIVES 1-2         | Apr-89        | May-91          | 1,873,541       | 2,098,574          |
|                               | 14653     | 23981   | REPL ECONOMIZER/PRIM SUPHTR-BLR 2 VAPP #1 | Mar-90        | Jun-91          | 1,067,448       | 1,040,325          |
|                               | 15688     | 40687   | INSTALL CEM'S VAPP                        | Dec-91        | Feb-94          | 1,450,000       | 1,527,553          |
|                               | 15815     | 24082   | VAPP #1-CONTROL & MONITORING SYS          | Apr-92        | Aug-94          | 3,146,736       | 2,989,790          |
|                               | 15816     | 24083   | VAPP #2-CONTROL & MONITORING SYS          | Apr-92        | Aug-95          | 2,566,352       | 2,398,299          |
|                               | 15967     | 24164   | REWIND GENERATOR 1 STATOR VAPP #1         | Sep-92        | Aug-94          | 820,000         | 816,861            |
|                               | 16002     | 24291   | REPLACE/UPGRADE PRECIPS BOILER 1-VAPP #1  | Nov-92        | Jul-94          | 363,000         | 5,182,842          |
|                               | 16003     | 89900   | REPLACE/UPGRADE PRECIPS BOILER 2-VAPP #1  | Nov-92        | Jul-94          | 363,000         | 4,836,988          |
|                               | 16004     | 24294   | REPLACE/UPGRADE PRECIPS BOILER 3-VAPP #2  | Nov-92        | Jul-95          | 4,600,682       | 5,103,385          |
|                               | 16005     | 13111   | REPLACE/UPGRADE PRECIPS BOILER 4-VAPP #2  | Nov-92        | Jul-95          | 4,533,120       | 5,123,827          |
|                               | 16006     | 40769   | INST LOW NOX BURNERS-BOILER 1-VAPP #1     | Nov-92        | Jul-95          | 1,427,535       | 1,326,598          |
|                               | 16007     | 40770   | INST LOW NOX BURNERS-BOILER 2-VAPP #1     | Nov-92        | Jul-95          | 1,385,302       | 1,241,679          |
|                               | 16008     | 89900   | INST LOW NOX BURNERS-BOILER 3-VAPP #2     | Nov-92        | Jun-95          | 1,454,528       | 945,894            |
|                               | 16021     | 89900   | INST LOW NOX BURNERS-BOILER 4-VAPP #2     | Nov-92        | Jul-95          | 1,454,528       | 923,825            |
|                               | 16081     | 89900   | REPL BOILER #1 PRIM SUPHTR/ECONOMIZER V1  | Apr-93        | Jul-94          | 363,000         | 1,171,633          |
|                               | 16087     | 24301   | REPL CONTROLS-TURBINE 2 VAPP #2           | Apr-93        | Jun-95          | 296,000         | 382,859            |
|                               | 16088     | 24300   | REPL CONTROLS-TURBINE 1 VAPP #1           | Apr-93        | Sep-94          | 296,000         | 360,833            |
|                               | 16124     | 89900   | VAPP - REPLACE UNIT 1 HEATER              | Jul-93        | Aug-94          | 314,313         | 314,252            |
|                               | 16125     | 89900   | VAPP - REPLACE UNIT 2 HEATER              | Jul-93        | Jul-95          | 363,000         | 301,828            |
|                               | AC1001339 |         | VAPP #2 REPLACE FEEDWATER HEATER          | Apr-99        | Nov-99          | 260,000         | 281,463            |
|                               | AC1001524 |         | VAPP #1 EXCITATION SYSTEM                 | Aug-99        | Sep-99          | 440,000         | 447,960            |
|                               | AC1001657 |         | VAPP #2 BLR 4 NEURAL NETWORK              | Nov-99        | Sep-00          | 400,000         | 166,695            |
|                               | AFO00077  |         | VAPP ASH SYS CONTROLS                     | Mar-96        | Feb-97          | 300,000         | 291,927            |
|                               | AFO00222  |         | VAPP # 2 LOW NOX BURNERS BOILER 3         | Oct-93        | Sep-96          | 1,454,528       | 266,902            |
|                               |           |         |   |               |                 |                 |                    |
|                               |           |         |   |               |                 |                 |                    |

\* Projects designated as "UC" are under construction. Total expenditures are not available for these projects.

**Question - 13 Dates of Low-Nox Burner (LNB) Retrofits**

| Plant | Unit | Description         | Date   |
|-------|------|---------------------|--------|
| OCP   | 7    | Install LNB         | May-92 |
| VAP   | 1    | Install LNB         | May-94 |
| VAP   | 2    | Install LNB         | Jun-94 |
| OCP   | 8    | Install LNB         | Apr-95 |
| VAP   | 3    | Install LNB         | May-95 |
| VAP   | 4    | Install LNB         | Jun-95 |
| PIP   | 3    | Install LNB         | May-01 |
| VAP   | 3    | Install LNB         | Oct-01 |
| VAP   | 4    | Install LNB         | Oct-01 |
| OCP   | 7    | Install LNB and OFA | Feb-02 |
| VAP   | 1    | Install LNB         | Apr-02 |
| VAP   | 2    | Install LNB         | Apr-02 |
| PIP   | 8    | Install LNB         | Jun-02 |
| OCP   | 8    | Install LNB and OFA | Feb-03 |
| PIP   | 5    | Install LNB         | Mar-03 |
| PIP   | 4    | Install LNB         | Oct-03 |

**Question 18 - Economizer, Reheater and Superheater Replacement Dates**

| <u>Plant</u> | <u>Unit</u> | <u>Description</u>                        | <u>Date</u> |
|--------------|-------------|---|-------------|
| VAPP         | 3           | Replace primary superheater/economizer    | Oct-87      |
| OCPP         | 6           | Replace boiler reheater                   | Jul-88      |
| OCPP         | 6           | Replace boiler superheater front pendants | Jul-88      |
| VAPP         | 4           | Replace primary superheater/economizer    | Jun-89      |
| VAPP         | 2           | Replace primary superheater/economizer    | Jun-91      |
| OCPP         | 7           | Replace economizer                        | May-92      |
| PIPP         | 6           | Replace reheater section                  | Feb-93      |
| PIPP         | 5           | Replace reheater section                  | Feb-93      |
| PIPP         | 4           | Replace economizer tubes                  | Jun-93      |
| VAPP         | 1           | Replace primary superheater/economizer    | May-94      |
| PIPP         | 6           | Replace high temp superheater tubes       | Oct-94      |
| PIPP         | 5           | Replace high temp superheater tubes       | Feb-95      |
| OCPP         | 8           | Replace economizer                        | Apr-95      |
| OCPP         | 8           | Replace reheater tubes                    | Apr-95      |
| PIPP         | 3           | Replace low temp superheater tubes        | Jul-97      |
| PIPP         | 4           | Replace low temp superheater tubes        | Nov-98      |
| PIPP         | 8           | Replace reheater tubes and supports       | Feb-99      |
| PIPP         | 7           | Replace reheater tubes and supports       | Feb-00      |
| PPPP         | 1           | Replace high temp superheater             | May-00      |
| OCPP         | 6           | Replace economizer                        | Jun-01      |
| OCPP         | 5           | Replace economizer                        | Apr-02      |

future requirements and will not increase the cost of service without proportionately increasing the value or available quantity thereof.

This action is classified as a Type 3 action pursuant to PSC 2.90(3)(y), Wis. Adm. Code. In addition, no unusual circumstances have come to the attention of the Commission which would require further environmental review. It consequently

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State of Wisconsin PUBLIC SERVICE COMMISSION

CHARLES N. THOMPSON, CHAIRMAN  
JOHN T. COUGHLIN, COMMISSIONER  
CHERYL L. PARRINO, COMMISSIONER  
4802 Beechgrove Avenue  
P. O. Box 7884  
Madison, Wisconsin 53707-7884

Mr. David K. Porter  
Senior Vice President  
Wisconsin Electric Power Company  
P.O. Box 2046  
Milwaukee, WI 53201

File No. 6630-CE-188

RE: Application of Wisconsin Electric Power Company for Authority to Replace the Economizer Section of the Unit 7 Boiler at its Oak Creek Power Plant in the City of Oak Creek, Milwaukee County

Dear Mr. Porter:

This letter order concerns the March 6, 1991, application of Wisconsin Electric Power Company, as an electric public utility, pursuant to s. 196.49, Wis. Stats., and Chapter PSC 112, Wis. Adm. Code, for authority to replace the economizer section of the steam generator of the Unit 7 boiler at its Oak Creek Power Plant in the City of Oak Creek, Milwaukee County.

The Commission has investigated your application and finds the proposed facility improvements are necessary to satisfy the reasonable needs of the public for an adequate supply of electric energy in your system. The Commission also finds that the general public interest and convenience and necessity require that Wisconsin Electric Power Company, as an electric public utility, construct, install and place in operation the facilities described in your March 6, 1991, application, at a total estimated cost of \$4,335,000, distributed as follows:

|                                   |             |
|-----------------------------------|-------------|
| Design and Installation           | \$3,571,000 |
| Projects Management, Engineering, |             |
| Testing                           | 254,000     |
| AFUDC                             | 104,000     |
| Total                             | \$3,929,000 |
| Maintenance                       | 100,000     |
| Removal Costs                     | 306,000     |
| Total Project Cost                | \$4,335,000 |

F 0 9

Mr. David K. Porter  
Wisconsin Electric Power Company  
Page 2

Associated project retirement is estimated to be \$570,300. The cost of the project would be met through internal sources and from the issuance and sale of securities.

This action is classified as a Type 3 action pursuant to PSC 2.90(3)(z), Wis. Adm. Code. In addition, no unusual circumstances have come to the attention of the Commission which would require further environmental review. It consequently requires neither an environmental impact statement under s. 1.11, Wis. Stats., nor an environmental assessment.

The Commission, therefore, certifies that Wisconsin Electric Power Company, as an electric public utility, be and it hereby is authorized to construct, install and place in operation the facilities needed to replace the economizer section in the Unit 7 boiler at its Oak Creek Power Plant as described in its March 6, 1991, application to the Commission, all at an estimated project cost of \$4,335,000, and that said utility be and it hereby is authorized to so proceed, subject to the following conditions:

1. This authorization is for the specific project described in the March 6, 1991, application and at the stated project cost. Should the scope/design of the project be changed significantly, or if the expected project cost estimate (as reviewed upon receipt of bids or vendor quotations or at anytime during the project) exceeds that stated above by more than 10 percent, your utility shall promptly notify the Commission.
2. Upon completion of the project, your utility shall inform the Commission of the date the facilities were placed in service and report final costs, segregated by plant accounts and by function as listed in the cost estimate herein, when such become available.
3. This authorization is valid only if construction is started within two years of the date hereof.
4. The Commission retains jurisdiction in this matter.

Notice is hereby given that the expenses incurred or to be incurred by the Commission which are reasonably attributable to the investigation of this application shall be assessed and

Exhibit 7

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future requirements and will not increase the cost of service without proportionately increasing the value or available quantity thereof.

This action is classified as a Type 3 action pursuant to PSC 2.90(3)(y), Wis. Adm. Code. In addition, no unusual circumstances have come to the attention of the Commission which would require further environmental review. It consequently

F 0 9

Mr. David K. Porter  
Wisconsin Electric Power Company  
Page 2

Associated project retirement is estimated to be \$570,300. The cost of the project would be met through internal sources and from the issuance and sale of securities.

This action is classified as a Type 3 action pursuant to PSC 2.90(3)(z), Wis. Adm. Code. In addition, no unusual circumstances have come to the attention of the Commission which would require further environmental review. It consequently requires neither an environmental impact statement under s. 1.11, Wis. Stats., nor an environmental assessment.

The Commission, therefore, certifies that Wisconsin Electric Power Company, as an electric public utility, be and it hereby is authorized to construct, install and place in operation the facilities needed to replace the economizer section in the Unit 7 boiler at its Oak Creek Power Plant as described in its March 6, 1991, application to the Commission, all at an estimated project cost of \$4,335,000, and that said utility be and it hereby is authorized to so proceed, subject to the following conditions:

1. This authorization is for the specific project described in the March 6, 1991, application and at the stated project cost. Should the scope/design of the project be changed significantly, or if the expected project cost estimate (as reviewed upon receipt of bids or vendor quotations or at anytime during the project) exceeds that stated above by more than 10 percent, your utility shall promptly notify the Commission.
2. Upon completion of the project, your utility shall inform the Commission of the date the facilities were placed in service and report final costs, segregated by plant accounts and by function as listed in the cost estimate herein, when such become available.
3. This authorization is valid only if construction is started within two years of the date hereof.
4. The Commission retains jurisdiction in this matter.

Notice is hereby given that the expenses incurred or to be incurred by the Commission which are reasonably attributable to the investigation of this application shall be assessed and

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JXR:AS:MM:02159104.ERB/LORDER

cc: K. H. Mylotta, DUOR/CRAFS

See attached Notice of Appeal Rights.


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Mr. David K. Porter  
Wisconsin Electric Power Company  
Page 3

collected from the utility pursuant to s. 196.85, Wis. Stats., and Chapter PSC 5, Wis. Adm. Code.

By the Commission.

Signed 2nd day of April, 1991

  
Jacqueline K. Reynolds  
Secretary to the Commission

JXR:MM:03199102.ERB/LORDER

See attached Notice of Appeal Rights.

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Jacqueline K. Reynolds  
Secretary to the Commission

JKR:PCN

cc: Richard Prestin, MSP  
Larry Thorson, DPC  
David Penn, WPPJ  
Paul Vanderbloemen, MG&E

See attached Notice of Appeal Rights

C20



State of Wisconsin \ PUBLIC SERVICE COMMISSION

CHARLES K. THOMPSON, CHAIRMAN  
MARY LOU MURPHY, COMMISSIONER  
JOHN Y. COUGHLIN, COMMISSIONER  
4802 Sweborgsen Avenue  
P. O. Box 7884  
Madison, Wisconsin 53707

Mr. David K. Porter  
Senior Vice President  
Wisconsin Electric Power Company  
231 West Michigan  
P.O. Box 2046  
Milwaukee, WI 53201

File No. 6630-CE-176

Re: Application of Wisconsin Electric Power Company for Authority to Install a 138-230 kV Replacement Transformer and Associated Equipment at the Existing Oak Creek Power Plant Substation in the City of Oak Creek, Milwaukee County

Dear Mr. Porter:

This letter order concerns the December 4, 1989, application by Wisconsin Electric Power Company, as an electric public utility, pursuant to s. 196.49, Wis. Stats., and s. PSC 112, Wis. Adm. Code, for a certificate to install a new, 360 MVA, 138/230 kV, three-phase autotransformer and associated equipment at the Oak Creek Power Plant Substation.

The Commission has investigated the application and finds that the proposed project is necessary to satisfy the reasonable needs of the public for adequate and reliable electric service. The project is needed to replace an existing transformer bank, one unit of which is subject to risk of failure due to age and deterioration. The Commission also finds that the general public interest and public convenience and necessity require that Wisconsin Electric Power Company, as an electric public utility, purchase, install and place in operation the proposed facilities, as described in your December 4, 1989, application. The estimated cost is \$1,902,800 for capital additions and improvements. Associated maintenance is estimated to be \$21,600 and total book value of retirements is \$310,263.

The construction, installation and operation of the proposed facilities at the estimated cost will not impair the efficiency of your utility's service, will not provide facilities unreasonably in excess of probable future requirements and will not increase the cost of service without proportionately increasing the value of available quantity thereof.

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Mr. David K. Porter  
Wisconsin Electric Power Company  
Page 2

This action is classified as a Type 2 action pursuant to PSC 2.90(2)(c), Wis. Adm. Code. An environmental assessment was prepared to determine if the preparation of an environmental impact statement is necessary under s. 1.11, Wis. Stats. It has been determined that no significant environmental impacts are likely and therefore an environmental impact statement is not required.

The proposed facilities will not be located in a designated floodplain or floodprone area. Consequently, there is no significant flood risk to the proposed project per Executive Order 73.

The Commission, therefore, certifies that the Wisconsin Electric Power Company, as an electric public utility, be and it hereby is authorized to purchase, install and place in operation the proposed facilities, as described in its December 4, 1989, application at an estimated cost of \$1,902,800, and that the utility be and it hereby is authorized to so proceed, subject to the following conditions:

1. This authorization is valid only if the construction is started within one year of the date hereof.
2. This authorization is for the specific project as described in the application at the stated project cost. Should the scope, design, or location of the project be changed significantly, or if the expected project cost (as reviewed upon the receipt of bids or as determined at any time during the project) exceeds that stated above by more than 10 percent, the utility shall properly notify the Commission.
3. Applicant shall notify the Commission of the date the facilities are placed in service.
4. Final costs, segregated by major plant accounts, shall be submitted to the Commission when such become available.
5. The Commission retains jurisdiction in this matter.

Notice is hereby given that the expenses incurred by the Commission which are reasonably attributed to the investigation of:



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Mr. David K. Porter  
Wisconsin Electric Power Company  
Page 2

This action is classified as a Type 2 action pursuant to PSC 2.90(2)(c), Wis. Adm. Code. An environmental assessment was prepared to determine if the preparation of an environmental impact statement is necessary under s. 1.11, Wis. Stats. It has been determined that no significant environmental impacts are likely and therefore an environmental impact statement is not required.

The proposed facilities will not be located in a designated floodplain or floodprone area. Consequently, there is no significant flood risk to the proposed project per Executive Order 73.

The Commission, therefore, certifies that the Wisconsin Electric Power Company, as an electric public utility, be and it hereby is authorized to purchase, install and place in operation the proposed facilities, as described in its December 4, 1989, application at an estimated cost of \$1,902,800, and that the utility be and it hereby is authorized to so proceed, subject to the following conditions:

1. This authorization is valid only if the construction is started within one year of the date hereof.
2. This authorization is for the specific project as described in the application at the stated project cost. Should the scope, design, or location of the project be changed significantly, or if the expected project cost (as reviewed upon the receipt of bids or as determined at any time during the project) exceeds that stated above by more than 10 percent, the utility shall properly notify the Commission.
3. Applicant shall notify the Commission of the date the facilities are placed in service.
4. Final costs, segregated by major plant accounts, shall be submitted to the Commission when such become available.
5. The Commission retains jurisdiction in this matter.

Notice is hereby given that the expenses incurred by the Commission which are reasonably attributed to the investigation of


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Mr. David K. Porter  
Wisconsin Electric Power Company  
Page 3

this application shall be assessed against and collected from the utility pursuant to s. 196.85, Wis. Stats., and Chapter PSC 5, Wis. Adm. Code.

By the Commission.

Signed 6<sup>th</sup> day of February, 1990

  
Jacqueline K. Reynolds  
Secretary to the Commission

JKR:STR:bfd12198902

See attached Notice of Appeal Rights.

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...approaches which to resolve the difficulty. As the Commission understands the question at issue, there is no particularly compelling utility aspect of the dispute which would require the Commission's specific utility expertise.

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State of Wisconsin / PUBLIC SERVICE COMMISSION

CHARLES H. THOMPSON, CHAIRMAN  
MARY LOU MURTS, COMMISSIONER  
JOHN T. COUGHLIN, COMMISSIONER  
4802 Shuboygen Avenue  
P. O. Box 7854  
Madison, Wisconsin 53707

File No. 6630-CE-174

Mr. David K. Porter  
Senior Vice President  
Wisconsin Electric Power Company  
231 West Michigan Street  
P.O. Box 2046  
Milwaukee, WI 53201

RE: Application of Wisconsin Electric Power Company for Authority to Install a Process Steam Header and Steam Distribution System at the Oak Creek Power Plant Located in the City of Oak Creek, Milwaukee County

Dear Mr. Porter:

This letter concerns the October 17, 1989, filing of Wisconsin Electric Power Company, pursuant to s. 196.49, Wis. Stats., and Chapter PSC 112, Wis. Adm. Code, for Commission's determination as to the need for a certificate of public convenience and necessity for a project estimated to cost between \$1 and \$2 million. The Commission has determined to process this information as provided in s. PSC 112.05(2)(b)1, Wis. Adm. Code.

The Commission hereby acknowledges receipt of and accepts the information for filing. The Commission notes that work was started on part of this project because the scope and estimated cost, as originally constituted, did not exceed \$1,000,000 but that the project, as now revised, is submitted for review pursuant to s. PSC 112.05(2). The company, therefore, may continue with the proposed installation of a process steam header and steam distribution system at the Oak Creek Power Plant, as described in your filing, subject to the conditions contained herein. The facilities are needed to provide a more flexible and reliable source of intermediate pressure steam for the operation of plant auxiliaries and heating.

The Commission has reviewed the filed information contained in the October 17, 1989, letter regarding the proposed project. The Commission has determined that the proposed facilities are necessary to assure the reliability, availability and economic operation of the Oak Creek Power Plant.

Installation and operation of the proposed facilities at the estimated cost will not impair the utility's service, will not provide facilities unreasonably in excess of probable future

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David K. Porter, Sr. V.P.  
Wisconsin Electric Power Company  
Page 2

requirements, and when placed in operation, will not add to the cost of service without proportionately increasing the value or available quantity thereof.

This is a Type 3 action pursuant to s. PSC 2.90(3)(zd), Wis. Adm. Code. In addition, no unusual circumstances have come to the attention of the Commission which would require further environmental review. It consequently requires neither an environmental impact statement under s. 1.11, Wis. Stats., nor an environmental assessment.

The location of the proposed facilities is not within a flood hazard area. Consequently, there is no significant flood risks to the proposed project per Executive Order 73.

This authorization is subject to the following conditions:

1. This determination is for a specific project as described at an estimated cost of \$1,732,700. Should the scope or design of the project be changed significantly, or if the expected project cost estimate exceeds or is less than that stated in your October 17, 1989, letter by more than 10 percent, your utility shall promptly notify the Commission.
2. Your utility shall notify the Commission when the project has been completed and final costs segregated by major accounts shall be submitted to the Commission when available.
3. Commission retains jurisdiction in this matter.

By the Commission.

Signed 21<sup>st</sup> day of November, 1989

Jacqueline K. Reynolds  
Secretary to the Commission

JJK:TLPIerb10258905

See attached Notice of Appeal Rights.

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|                                     |            |
|-------------------------------------|------------|
| Mechanical                          | 40,000     |
| Electrical Controls, Telemetry      | 20,000     |
| Construction Total                  | 45,000     |
|                                     | \$ 190,000 |
| Land Acquisition (With Legal Costs) | \$ 3,000   |
| Engineering Services                | 35,000     |
| Contingency (10%)                   | 26,000     |
| Project Total                       | \$ 254,000 |

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State of Wisconsin \ PUBLIC SERVICE COMMISSION

CHARLES M. THOMPSON, CHAIRMAN  
 MARY LOU MURTS, COMMISSIONER  
 JOHN T. COUGHLIN, COMMISSIONER  
 4802 Sheboygan Avenue  
 P. O. Box 7854  
 Madison, Wisconsin 53707

File No. 6630-CE-174

Mr. David K. Porter,  
 Senior Vice President  
 Wisconsin Electric Power Company  
 231 West Michigan  
 P.O. Box 2046  
 Milwaukee, WI 53201

RE: Proposed Installation of Process Steam Header and Steam  
 Distribution System at Oak Creek Power Plant

Dear Mr. Porter:

The Commission acknowledges your April 10, 1990, letter notifying it of the revised scope and estimated cost for the subject project. The total cost of the project is now estimated to be \$2,668,600, which is \$935,900 above the original estimate of \$1,732,700, authorized in the November 21, 1989 Commission approval letter. The increased cost results from changes in the design and scope of the system and additional steam main.

Your notification is accepted as compliance with the November 21, 1989, Commission approval letter. Please be reminded that you are to continue to keep the Commission informed of any further substantial changes in design, location, size or cost of the project.

The project may proceed as revised. Because of continued uncertainties which may affect the actual scope, completion schedule, and final costs for this project, the Commission will retain jurisdiction for any final regulatory action based on the detailed review of the final project costs upon completion.


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Mr. David K. Porter  
 Wisconsin Electric Power Company  
 Page 2

The conditions of the Commission's November 21, 1989, approval remain in effect.

By the Commission.

Signed 15<sup>th</sup> day of May, 1990

  
 Jacqueline K. Reynolds  
 Secretary to the Commission

JKR:TLP:04259004.erb

See attached Notice of Appeal Rights.



State of Wisconsin / PUBLIC SERVICE COMMISSION

JKR

CHARLES H. THOMPSON, CHAIRMAN  
MARY LOU MURTE, COMMISSIONER  
JOHN T. COUGHLIN, COMMISSIONER  
4801 Sheboygan Avenue  
P. O. Box 7884  
Madison, Wisconsin 53707

File No. 6630-CR-166

Mr. Thomas C. Cassidy  
Executive Vice President  
Wisconsin Electric Power Company  
231 West Michigan Street  
P.O. Box 2046  
Milwaukee, WI 53201

RE: Application by Wisconsin Electric Power Company for Authority to Replace the Tubing and the Tubing Support System for the Furnace Rear Wall Radiant Superheater Section of Oak Creek Unit 5 Boiler, Milwaukee County

Dear Mr. Cassidy:

This letter concerns the May 19, 1989, filing of Wisconsin Electric Power Company pursuant to s. 196.49, Wis. Stats., and Chapter PSC 112, Wis. Adm. Code, for Commission's determination as to the need for a certificate of public convenience and necessity for a project estimated to cost between \$1 and \$2 million. The Commission has determined to process this information as provided in s. PSC 112.05(2)(b)1, Wis. Adm. Code.

The Commission hereby acknowledges receipt of and accepts the information for filing. The company, therefore, may proceed with the proposed replacement of the tubing and tubing support system for the furnace rear wall radiant superheater section of Oak Creek Unit 5 Boiler, as described in your filing, subject to the conditions contained herein.

The Commission has reviewed the information contained in your May 19, 1989 letter regarding the proposed project. The Commission has determined that the proposed facilities are necessary to assure the continued safe, reliable, and economic operation of the Oak Creek Unit 5 generation.

Installation and operation of the proposed facilities at the estimated costs will not impair your utility's service, will not provide facilities unreasonably in excess of probable future requirements, and when placed in operation, will not add to the cost of service without proportionately increasing the value or available quantity thereof.

Mr. Thomas C. Cassidy  
Wisconsin Electric Power Company  
Page 2

This is a Type 3 action pursuant to PSC 2.90(3)(s), Wis. Adm. Code. In addition, no unusual circumstances have come to the attention of the Commission which would require further environmental review. It consequently requires neither an environmental impact statement under s. 1.11, Wis. Stats., nor an environmental assessment.

The location of these facilities are not within a flood hazard area. Consequently, there is no significant flood risk to the proposed project per Executive Order 73.

This authorization is subject to the following conditions:

1. This determination is for a specific project as described at an estimated cost of \$1,779,000. Should the scope or design of the project be changed significantly, or if the expected project cost estimate exceeds or is less than that stated in your May 19, 1989 letter by more than 10 percent, your utility shall promptly notify the Commission.
2. Your utility shall notify the Commission when the project has been completed, and final costs segregated by major accounts, shall be submitted to the Commission when available.
3. The Commission retains jurisdiction in this matter.

By the Commission.

Signed Sek day of August, 1989

CAY in JKR  
Jacqueline K. Reynolds  
Secretary to the Commission

JKR:TLB:arb06028906

See attached Notice of Appeal Rights.

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Attachments

cc: TDE/Steven VandenHauvel  
CFCC/Terrence S. Fox

B20



State of Wisconsin / PUBLIC SERVICE COMMISSION

CHARLES H. THOMPSON, CHAIRMAN  
MARY LOU MURTS, COMMISSIONER  
CHERYL L. POFAK, COMMISSIONER  
4802 Spangor Avenue  
P. O. Box 7854  
Madison, Wisconsin 53707

File No. 6630-CE-161

Mr. Thomas J. Cassidy  
Executive Vice President  
Wisconsin Electric Power Company  
231 West Michigan  
P.O. Box 2046  
Milwaukee, WI 53201

RE: Application by the Wisconsin Electric Power Company for Authority to Install Flue Gas Conditioning Systems for Units 5 and 6 at Its Oak Creek Power Plant - Extension of Time

Dear Mr. Cassidy:

In response to your April 3, 1989 request, the Commission hereby grants Wisconsin Electric Power Company a two-year extension of the effective period (until March, 1992) of the Commission's March 16, 1989, order authorizing the subject project.

All other conditions contained in the March 16, 1989, Commission order remain in effect.

By the Commission.

Signed 16<sup>th</sup> day of May, 1989

JKR  
Jacqueline K. Reynolds  
Secretary to the Commission

JKR:TLP:erb05098913

See attached Notice of Appeal Rights.

environmental review. It consequently requires neither an environmental impact statement under s. 1.11, Wis. Stats., nor an environmental assessment.

Notice is hereby given that the expenses incurred by the Commission which are reasonably attributable to the investigation of this construction filing will be assessed against and collected

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State of Wisconsin / PUBLIC SERVICE COMMISSION

CHARLES H. THOMPSON, CHAIRMAN  
MARY LOU MURTS, COMMISSIONER  
CHERYL L. POFAK, COMMISSIONER  
4802 Spangor Avenue  
P. O. Box 7854  
Madison, Wisconsin 53707

File 6650

Charles J. Cummings, Attorney  
Wisconsin Gas Company  
626 E. Wisconsin Avenue  
Milwaukee, WI 53202

Dear Mr. Cummings:

This is in response to your waiver request dated January 23, 1989. The Commission granted your company a waiver of the provisions of your Priority of Service Program which would limit your customer, Consolidated Papers, to not more than 300 Dthms per day. The term of this waiver is two years.

By the Commission.

Signed 16<sup>th</sup> day of May, 1989

JKR  
Jacqueline K. Reynolds  
Secretary to the Commission

JKR:KMW:mad05088902

See attached Notice of Appeal Rights.

CHAIRMAN  
COMMISSIONER  
P. O. Box 7854  
Madison, WI 53707

letter  
technical  
phase

JKR

JKR

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## State of Wisconsin \ PUBLIC SERVICE COMMISSION

 MARY LOU MUMTS, CHAIRPERSON  
 BRANEO TELZIC, COMMISSIONER  
 GEORGE EDGAR, COMMISSIONER  
 ANDY SHEROYGAN, AVERAGE  
 P.O. BOX 7854  
 MADISON WISCONSIN 53707

 Mr. Thomas J. Cassidy  
 Executive Vice President  
 Wisconsin Electric Power Company  
 701 West Michigan  
 P.O. Box 7046  
 Milwaukee, WI 53101

6630-CE-119

 Re: Replacement of the Unit 5 Reheater Tubing at the Oak Creek  
 Power Plant.

Dear Mr. Cassidy:

This letter order concerns the June 11, 1986 application of Wisconsin Electric Power Company, as an electric public utility, pursuant to s. 196.49, Wis. Stat., and Chapter ISC 112, Wis. Adm. Code, for authority to replace, over a three-year period of time, the Unit 5 reheater tubing at its Oak Creek power plant, in the city of Oak Creek, Milwaukee County.

This action is classified as a Type 3 action pursuant to PSC 2.90(3)(z), Wis. Adm. Code. In addition, no unusual circumstances have come to the attention of the commission which would require further environmental review. It consequently requires neither an environmental impact statement under s. 1.11, Wis. Stat., nor an environmental assessment.

The commission has investigated your application and finds the proposed facility improvements are necessary to satisfy the reasonable needs of the public for an adequate supply of electric energy in your system. The commission also finds that the general public interest and convenience and necessity require that Wisconsin Electric Power Company, as an electric public utility, construct and place in operation the facilities described in your June 11, 1986 application, at a total estimated cost of \$2,458,000 distributed as follows:

|               |             |
|---------------|-------------|
| Material      | \$ 988,000  |
| Installation  | \$1,095,000 |
| Reheater Cost | \$ 375,000  |
| Total         | \$2,458,000 |

Associated project retirements are estimated to be \$749,384. The cost of the project would be met through internal sources and from the issuance and sale of securities.

The commission therefore certifies that Wisconsin Electric Power Company, as an electric public utility, is and it hereby is authorized to construct, install and place in operation the facilities needed to replace, over a three-year period of

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 Mr. Thomas J. Cassidy  
 Page 2

time, the reheater tubing in its Unit 5 boiler, at its Oak Creek power plant as described in its June 11, 1986 application to the commission, all at an estimated project cost of \$2,458,000, and that said utility be and it hereby is authorized to so proceed, subject to the following conditions:

1. This authorization is for the specific project described in the June 11, 1986 application and at the stated project cost. Should the "scope/design" of the project be changed significantly, or if the expected project cost estimate (as reviewed upon receipt of bids or vendor quotations or at any time during the project) exceeds that stated above by more than 10%, your utility shall promptly notify the commission.
2. Upon completion of the project, your utility shall inform the commission of the date the facilities were placed in service and report final costs, segregated by plant accounts and by function as listed in the cost estimate herein, when such become available.
3. This authorization is valid only if construction is started within one year of the date hereof.
4. That before submitting any further applications for Oak Creek plant improvements on a partial or individual project basis, the utility shall proceed to file the proposed consolidated application for all major Oak Creek renovation items planned for implementation as a result of the 1984 Plant Availability Study.
5. The commission retains jurisdiction in this matter.

Notice is hereby given that the expenses incurred or to be incurred by the commission which are reasonably attributable to the investigation of this application shall be assessed and collected from the utility pursuant to s. 196.85, Wis. Stat., and Chapter PSC 5, Wis. Adm. Code.

By the Commission.

Signed 22<sup>nd</sup> day of

July, 1986

 Jacqueline K. Reynolds  
 Secretary to the Commission

JKR:RSC:SES:reb

See attached Notice of Appeal Rights.

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location, or cost as determined at any time during the project.

3. That upon completion of the project, applicant shall notify the commission when the facilities were placed in service and shall submit a final report of the actual costs incurred, segregated by plant accounts.
4. That jurisdiction is retained.

E 19



State of Wisconsin / PUBLIC SERVICE COMMISSION

*JKR*

MRS. FLORES, CHAIRMAN  
BRANKO TERZIC, COMMISSIONER  
MARY LOU MUNTZ, COMMISSIONER  
4402 SHEBOYGAN AVENUE  
P.O. BOX 7854  
MADISON, WISCONSIN 53707

Mr. Thomas J. Cassidy  
Executive Vice President  
Wisconsin Electric Power Company  
231 West Michigan  
P. O. Box 2046  
Milwaukee, WI 53201

File No. 6630-CE-115

RE: Oak Creek Unit-7 Boiler Reheat Tube Replacement

Dear Mr. Cassidy:

The commission pursuant to s. 196.49, Wis. Stats., and Chapter PSC 112.05(2), Wis. Adm. Code, hereby acknowledges receipt of and accepts for filing your proposal for the replacement of tubes in the boiler reheat section front wall, front and rear reheat pendant tube assemblies and crossover tubing associated with the Oak Creek Unit-7 Steam Generator, as described in your March 19, 1986 letter. The estimated project cost is \$1,121,610, distributed as follows:

|                    |                    |
|--------------------|--------------------|
| Material           | \$ 622,560         |
| Installation       | 375,305            |
| Removal Cost       | 123,745            |
| Total project cost | <u>\$1,121,610</u> |

An estimated \$271,756 would be retired from appropriate plant accounts.

Please notify the commission when the project is completed. Also, final costs, segregated by plant accounts, shall be submitted to the commission when such become available.

The commission retains jurisdiction in this matter.

By the Commission.

Signed 15<sup>th</sup> day of April, 1986

*JKR*  
Jacqueline K. Reynolds  
Secretary to the Commission

JKR:SES:erb

See attached Notice of Appeal Rights.

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State of Wisconsin / PUBLIC SERVICE COMMISSION

MRS. FLORES, CHAIRMAN  
BRANKO TERZIC, COMMISSIONER  
MARY LOU MUNTZ, COMMISSIONER  
4402 SHEBOYGAN AVENUE  
P.O. BOX 7854  
MADISON, WISCONSIN 53707

Mr. Melvin Anderson, Superintendent  
Spooner Municipal Electric Utility  
Spooner, WI 54801

File No. 5630-ER-3

Dear Mr. Anderson:

The commission, in its open meeting today, granted your utility's request for an extension of time until August 1, 1986, to submit 12 months of load research data and time-of-day rate for the large power customers with monthly demand of 200 kW or more.

If you have any questions, please contact Barbara Palecek of the Utility Rates Division staff at (608) 267-3516.

By the Commission.

Signed 15<sup>th</sup> day of April, 1986

*JKR*  
Jacqueline K. Reynolds  
Secretary to the Commission

JKR:BJP:br

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State of Wisconsin \ PUBLIC SERVICE COMMISSION

CHARLES H. THOMPSON, CHAIRMAN  
MARY LOU MURTS, COMMISSIONER  
GEORGE R. EDGAR, COMMISSIONER  
4802 Sheboygan Avenue  
P. O. Box 7854  
Madison, Wisconsin 53707

Mr. Thomas J. Cassidy  
Executive Vice President  
Wisconsin Electric Power Company  
231 W. Michigan Street  
P. O. Box 2046  
Milwaukee, WI 53201

Docket 6630-CE-114

Dear Mr. Cassidy:

The commission considered your request for postponement of the preliminary hearing in this docket at its March 17, 1987, open meeting, and determined to grant the request, under the following understandings:

1. WEPCO is developing new information which it wishes to present at the preliminary hearing. This information must be submitted to the commission at least 60 days before the preliminary hearing will be reopened.
2. As you know, the hearing was opened on March 24, 1987, as scheduled, to accommodate persons who may not have been aware of the schedule change. No testimony was taken.

When WEPCO has submitted the information it intends to present at the preliminary hearing on the timing of your proposal, it may request that the preliminary hearing be reopened and the schedule will be reset.

By the Commission.

Signed 20<sup>th</sup> day of April, 1987

JKL  
Jacqueline K. Reynolds  
Secretary to the Commission

JKR:BEJ:vm104168702

cc: Parties  
Staff

See attached Notice of Appeal Rights.

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State of Wisconsin \ PUBLIC SERVICE COMMISSION

J. K. R.

CHARLES H. THOMPSON, CHAIRMAN  
MARY LOU MURTS, COMMISSIONER  
GEORGE R. EDGAR, COMMISSIONER

MAY 4 1987

1 18



State of Wisconsin \ PUBLIC SERVICE COMMISSION

CHARLES H. THOMPSON, CHAIRMAN  
MARY LOU MURTS, COMMISSIONER  
GEORGE R. EDGAR, COMMISSIONER  
4802 Sheboygan Avenue  
P. O. Box 7854  
Madison, Wisconsin 53707

Mr. Peter Anderson  
Wisconsin Environmental Decade  
Suite 5  
14 W. Mifflin Street  
Madison, WI 53703

Docket 6630-CE-114

Dear Mr. Anderson:

The commission considered your motion to defer the North Oak Creek Project review at its open meeting of March 17, 1987, and determined to take no action on the motion.

The reason for this determination is that the motion is premature in view of the hearing on scheduling which has been noticed and deferred, per the letter of this date from the commission to Mr. Cassidy.

By the Commission.

Signed 20<sup>th</sup> day of April, 1987

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Jacqueline K. Reynolds  
Secretary to the Commission

JKR:BEJ:vm104168703

cc: Parties  
Staff

See attached Notice of Appeal Rights.

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State of Wisconsin \ PUBLIC SERVICE COMMISSION

CHARLES H. THOMPSON, CHAIRMAN  
MARY LOU MURTS, COMMISSIONER  
GEORGE R. EDGAR, COMMISSIONER

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State of Wisconsin / PUBLIC SERVICE COMMISSION

MARY LOU BRINTZ, CHAIRPERSON  
BRANKO TERZIC, COMMISSIONER  
GEORGE EDGAR, COMMISSIONER  
802 SHEBOYGAN AVENUE  
P.O. BOX 7864  
MADISON, WISCONSIN 53707

Mr. Thomas J. Cassidy  
Executive Vice President  
Wisconsin Electric Power Company  
231 West Michigan  
P. O. Box 2046  
Milwaukee, WI 53201

File No. 6630-CE-113

RE: Refurbishment of the Unit 5 Electrostatic Precipitator at  
the Oak Creek Power Plant

Dear Mr. Cassidy:

This letter order concerns the January 23, 1986 application of Wisconsin Electric Power Company, as an electric public utility, pursuant to s. 196.49, Wis. Stats., and Chapter PSC 112, Wis. Adm. Code, for authority to refurbish, over a three-year period of time, the Unit 5 electrostatic precipitator at its Oak Creek Power Plant, in the city of Oak Creek, Milwaukee County.

This is a Type 3 action according to PSC 2.90(3), Wis. Adm. Code. In addition, no unique circumstances have come to the attention of commission staff that would require further environmental analysis of the proposal. It consequently requires neither an environmental impact statement under s. 1.11, Wis. Stats., nor an environmental assessment.

The commission has investigated your application and finds the proposed facility improvements are necessary to satisfy the reasonable needs of the public for an adequate supply of electric energy in your system. The commission also finds that the general public interest and convenience and necessity require that Wisconsin Electric Power Company, as an electric public utility, construct and place in operation the facilities described in your January 23, 1986 application, at a total estimated gross cost of \$6,236,530, distributed as follows:

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Mr. Thomas J. Cassidy  
Executive Vice President, WEP  
Page 2

|   |                    |
|---|--------------------|
| Duct modifications  | \$ 554,000         |
| Precipitator control room,<br>solid state voltage controls,<br>rapper controls, etc.  | 1,523,000          |
| Precipitator plates, support<br>hardware, electrode wires,<br>tensioning weights, top<br>partition plates, anti-sneak<br>baffles and insulation | 2,924,000          |
| Allowance for funds used during<br>construction   | <u>141,530</u>     |
| Sub total   | \$5,142,530        |
| Removals  | 767,000            |
| Associated maintenance costs  | <u>327,000</u>     |
| Total estimated gross project cost  | <u>\$6,236,530</u> |

Associated project retirements are estimated to be \$547,000.

The commission therefore certifies that Wisconsin Electric Power Company, as an electric public utility, be and it hereby is authorized to construct, install and place in operation the facilities needed to refurbish, over a three-year period of time, the Unit 5 electrostatic precipitator at its Oak Creek Power Plant, as described in its January 23, 1986 application to the commission, all at an estimated gross project cost of \$6,236,530, and that said utility be and it hereby is authorized to so proceed, subject to the following conditions:

1. This authorization is for the specific project described in your January 23, 1986 application and at the stated project cost. Should the scope/design of the project be changed significantly, or if the expected project cost estimate (as reviewed upon receipt of bids or vendor quotations or at any time during the project) exceeds that stated above by more than 10%, your utility shall promptly notify the commission.
2. Upon completion of the project, your utility shall inform the commission of the date the facilities were placed in service and report final costs, segregated by plant accounts and by function as listed in the cost estimate herein, when such become available.
3. This authorization is valid only if construction is started within one year of the date hereof.
4. The commission retains jurisdiction in this matter.

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See attached Notice of Appeal Rights.

*Jkr*  
 Jacqueline K. Reynolds  
 Secretary to the Commission

JKR:CBS:nea

See attached Notice of Appeal Rights.

cc: Service List  
Gordon Grant

113

Mr. Thomas J. Cassidy  
 Executive Vice President, WEP  
 Page 2

|   |             |
|---|-------------|
| Duct modifications  | \$ 554,000  |
| Precipitator control room,<br>solid state voltage controls,<br>rapper controls, etc.  | 1,523,000   |
| Precipitator plates, support<br>hardware, electrode wires,<br>tensioning weights, top<br>partition plates, anti-sneak<br>baffles and insulation | 2,924,000   |
| Allowance for funds used during<br>construction   | 141,530     |
| Sub total   | \$5,142,530 |
| Removals  | 767,000     |
| Associated maintenance costs  | 327,000     |
| Total estimated gross project cost  | \$6,236,530 |

Associated project retirements are estimated to be \$547,000.

The commission therefore certifies that Wisconsin Electric Power Company, as an electric public utility, be and it hereby is authorized to construct, install and place in operation the facilities needed to refurbish, over a three-year period of time, the Unit 5 electrostatic precipitator at its Oak Creek Power Plant, as described in its January 23, 1986 application to the commission, all at an estimated gross project cost of \$6,236,530; and that said utility be and it hereby is authorized to so proceed, subject to the following conditions:

1. This authorization is for the specific project described in your January 23, 1986 application and at the stated project cost. Should the scope/design of the project be changed significantly, or if the expected project cost estimate (as reviewed upon receipt of bids or vendor quotations or at any time during the project) exceeds that stated above by more than 10%, your utility shall promptly notify the commission.
2. Upon completion of the project, your utility shall inform the commission of the date the facilities were placed in service and report final costs, segregated by plant accounts and by function as listed in the cost estimate herein, when such become available.
3. This authorization is valid only if construction is started within one year of the date hereof.
4. The commission retains jurisdiction in this matter.

114

Mr. Thomas J. Cassidy  
 Executive Vice President, WEP  
 Page 3

Notice is hereby given that the expenses incurred or to be incurred by the commission which are reasonably attributable to the investigation of this application shall be assessed and collected from the utility pursuant to s. 196.85, Wis. Stats. and Chapter PSC 5, Wis. Adm. Code.

By the Commission.

Signed 3<sup>rd</sup> day of June, 1986

*Jkr*  
 Jacqueline K. Reynolds  
 Secretary to the Commission

JKR:SES:erb

See attached Notice of Appeal Rights.

JKR  
 UNIT 5 CHAIRPERSON  
 PSC COMMISSIONER  
 1875 BOYD AVE  
 P.O. BOX 784  
 WISCONSIN 53707

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| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|-------------|
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/18/1979 13:43  | 1/21/1979 8:06   | 66.38             | 1040       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/26/1979 23:55  | 1/29/1979 9:17   | 57.36             | 1060       |             |
| 521       | 158    | Oak Creek #5 |     |     | PO         | 2/8/1979 18:38   | 2/8/1979 19:27   | 0.81              | 1999       |             |
| 521       | 158    | Oak Creek #5 |     |     | PO         | 2/9/1979 0:01    | 4/19/1979 5:04   | 1661.05           | 1999       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 4/22/1979 17:26  | 4/22/1979 19:59  | 2.55              | 4099       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/11/1979 21:56  | 5/13/1979 23:28  | 49.53             | 1060       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/27/1979 4:10   | 5/29/1979 12:43  | 56.55             | 1080       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 6/13/1979 18:22  | 6/25/1979 23:39  | 293.28            | 8550       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 6/30/1979 1:34   | 7/1/1979 23:11   | 45.61             | 1060       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 7/14/1979 1:35   | 7/16/1979 7:21   | 53.76             | 1060       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/11/1979 1:04   | 8/13/1979 4:31   | 51.45             | 1060       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/15/1979 1:29   | 8/18/1979 15:03  | 85.56             | 1040       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 10/4/1979 1:17   | 10/4/1979 10:43  | 9.43              | 8580       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 10/5/1979 7:32   | 10/6/1979 13:01  | 29.48             | 1080       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 10/17/1979 21:45 | 10/18/1979 9:17  | 11.53             | 4619       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 10/27/1979 0:25  | 10/28/1979 18:37 | 42.2              | 1060       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 11/3/1979 2:58   | 11/5/1979 3:52   | 48.9              | 1040       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 11/14/1979 7:00  | 11/15/1979 6:25  | 23.41             | 1080       |             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 11/23/1979 16:29 | 11/25/1979 5:55  | 37.43             | 1060       |             |

Exhibit M

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description |  |
|-----------|--------|--------------|-----|-----|------------|----------------|------------------|-------------------|------------|-------------|--|
| 521       | 158    | Oak Creek #5 |     |     | MO         | 12/5/1979      | 1:13 12/12/1979  | 17:05             | 183.86     | 1160        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 12/22/1979     | 0:37 12/22/1979  | 16:12             | 15.58      | 1060        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 12/23/1979     | 22:08 12/24/1979 | 23:12             | 25.06      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 12/29/1979     | 1:14 12/31/1979  | 1:27              | 48.21      | 8560        |  |
| 521       | 158    | Oak Creek #5 |     |     | PO         | 1/5/1980       | 7:35 3/17/1980   | 12:25             | 1708.83    | 1999        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 3/17/1980      | 14:02 3/18/1980  | 7:38              | 17.6       | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 3/21/1980      | 9:24 3/21/1980   | 10:04             | 0.66       | 4269        |  |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 3/21/1980      | 23:18 3/24/1980  | 0:05              | 48.78      | 4099        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 3/28/1980      | 23:22 3/29/1980  | 23:17             | 23.91      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 4/15/1980      | 19:20 4/17/1980  | 21:06             | 49.76      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 4/19/1980      | 10:56 4/20/1980  | 3:27              | 16.51      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 4/20/1980      | 4:55 4/20/1980   | 7:38              | 2.71       | 4099        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/3/1980       | 1:09 5/4/1980    | 14:07             | 36.96      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/24/1980      | 3:48 5/25/1980   | 15:59             | 36.18      | 4099        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/27/1980      | 20:25 6/2/1980   | 1:48              | 125.38     | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 7/26/1980      | 0:18 7/27/1980   | 11:04             | 34.76      | 1060        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/2/1980       | 15:25 8/3/1980   | 6:08              | 14.71      | 340         |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/3/1980       | 19:54 8/4/1980   | 2:17              | 6.38       | 340         |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/17/1980      | 0:30 8/18/1980   | 14:20             | 37.83      | 1080        |  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description |  |
|-----------|--------|--------------|-----|-----|------------|----------------|------------------|-------------------|------------|-------------|--|
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/19/1980      | 5:13 8/20/1980   | 2:45              | 21.53      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/20/1980      | 3:23 8/20/1980   | 3:39              | 0.26       | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 8/22/1980      | 16:19 9/3/1980   | 13:01             | 284.7      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 9/13/1980      | 22:15 9/14/1980  | 6:39              | 8.39       | 3110        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 9/22/1980      | 20:42 9/23/1980  | 8:28              | 11.76      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 10/3/1980      | 4:58 10/5/1980   | 21:17             | 64.31      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 10/27/1980     | 20:38 10/31/1980 | 10:18             | 85.66      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 11/5/1980      | 9:35 11/7/1980   | 6:11              | 44.6       | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 11/10/1980     | 9:21 11/11/1980  | 11:12             | 25.85      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 12/23/1980     | 23:51 12/31/1980 | 24:00:00          | 192.15     | 1486        |  |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 1/1/1981       | 0:01 1/5/1981    | 3:26              | 99.41      | 1486        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/10/1981      | 20:40 1/12/1981  | 1:41              | 29.01      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/17/1981      | 4:13 1/18/1981   | 15:22             | 35.15      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/31/1981      | 1:54 2/3/1981    | 14:17             | 84.38      | 1060        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/21/1981      | 4:47 2/22/1981   | 3:14              | 22.45      | 1080        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 3/7/1981       | 22:17 3/8/1981   | 7:56              | 9.64       | 8560        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 4/3/1981       | 23:43 4/6/1981   | 5:03              | 53.33      | 8580        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 4/6/1981       | 7:40 4/6/1981    | 11:06             | 3.43       | 4309        |  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 4/14/1981      | 0:24 4/14/1981   | 1:26              | 1.03       | 4309        |  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |      |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|------|
| 521       | 158    | Oak Creek #5 |     |     | U1         | 4/28/1981      | 0:40         | 5/4/1981          | 3:57       | 147.28      | 1486 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/8/1981       | 3:27         | 5/8/1981          | 3:39       | 0.2         | 4269 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/8/1981       | 23:33        | 5/11/1981         | 8:00       | 56.45       | 8325 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/11/1981      | 8:00         | 5/12/1981         | 8:55       | 24.91       | 1040 |
| 521       | 158    | Oak Creek #5 |     |     | PO         | 6/6/1981       | 0:09         | 6/6/1981          | 12:10      | 12.01       | 1999 |
| 521       | 158    | Oak Creek #5 |     |     | PO         | 6/6/1981       | 13:20        | 6/6/1981          | 17:36      | 4.26        | 4400 |
| 521       | 158    | Oak Creek #5 |     |     | PO         | 6/6/1981       | 18:53        | 7/13/1981         | 2:25       | 871.53      | 1999 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 7/13/1981      | 4:20         | 7/14/1981         | 13:07      | 32.78       | 4309 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 7/14/1981      | 14:09        | 7/14/1981         | 14:14      | 0.8         | 4269 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 7/24/1981      | 22:34        | 7/27/1981         | 11:21      | 60.78       | 1060 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 7/27/1981      | 14:01        | 7/27/1981         | 14:09      | 0.13        | 4269 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 7/31/1981      | 22:45        | 8/1/1981          | 1:57       | 3.2         | 1486 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/1/1981       | 2:44         | 8/3/1981          | 8:54       | 54.16       | 1486 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/3/1981       | 9:14         | 8/3/1981          | 12:22      | 3.13        | 1486 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/13/1981      | 2:52         | 8/14/1981         | 3:03       | 24.18       | 1080 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/23/1981      | 1:59         | 8/26/1981         | 1:34       | 71.58       | 8560 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 9/1/1981       | 0:23         | 9/1/1981          | 4:49       | 4.43        | 4609 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 9/2/1981       | 4:21         | 9/2/1981          | 18:52      | 14.51       | 3621 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 9/2/1981       | 20:20        | 9/3/1981          | 5:45       | 9.41        | 4269 |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event        | Duration in hours | Cause Code | Description   |
|-----------|--------|--------------|-----|-----|------------|------------------|---------------------|-------------------|------------|---|
| 521       | 158    | Oak Creek #5 |     |     | U1         | 9/6/1981 15:52   | 9/8/1981 8:50       | 40.96             | 1060       |   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 9/20/1981 15:53  | 9/22/1981 3:40      | 35.78             | 1080       |   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 9/29/1981 23:56  | 10/3/1981 12:04     | 84.13             | 1080       |   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 10/21/1981 20:47 | 10/28/1981 13:28    | 160.68            | 1486       |   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 11/1/1981 15:08  | 11/3/1981 6:49      | 39.68             | 1080       |   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 11/10/1981 3:54  | 11/10/1981 5:59     | 2.08              | 4269       |   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 11/10/1981 6:33  | 11/10/1981 8:20     | 1.78              | 4269       |   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 12/7/1981 20:43  | 12/10/1981 16:05    | 67.36             | 1060       |   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 12/19/1981 6:36  | 12/19/1981 21:48    | 15.2              | 1060       |   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 12/29/1981 2:31  | 12/31/1981 24:00:00 | 69.48             | 1040       |   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/1/1982 0:01    | 1/4/1982 15:38      | 87.61             | 1040       | Superheater, Repair Leak  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/4/1982 17:38   | 1/5/1982 14:35      | 20.95             | 1080       | Economizer North, Repair Leak   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/18/1982 6:45   | 1/18/1982 13:06     | 6.35              | 4302       | Electrical problem in turbine trip circuit causing generator trip         |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/18/1982 15:00  | 1/18/1982 18:49     | 3.81              | 4299       | Control oil trouble   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/21/1982 1:33   | 1/21/1982 4:10      | 2.61              | 4299       | Control oil trouble   |
| 521       | 158    | Oak Creek #5 |     |     | U2         | 1/30/1982 22:23  | 2/1/1982 0:45       | 26.36             | 1060       | Out to repair reheat leak elev 81 northeast corner                        |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/15/1982 2:39   | 2/20/1982 15:25     | 132.76            | 1080       | Leak at south inlet header to economizer-repair leaks                     |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/20/1982 19:10  | 2/20/1982 23:51     | 4.68              | 4299       | Turbine, unit trip on failure to maintain sufficient control oil pressure |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 2/25/1982 0:14   | 3/1/1982 10:10      | 105.93            | 266        | Wash air heater   |



| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event        | Duration in hours | Cause Code | Description   |
|-----------|--------|--------------|-----|-----|------------|------------------|---------------------|-------------------|------------|---|
| 521       | 158    | Oak Creek #5 |     |     | U1         | 3/1/1982 10:35   | 3/1/1982 11:21      | 0.76              | 4293       | Unit trip   |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 3/11/1982 23:19  | 3/14/1982 11:36     | 60.28             | 540        | Reheat tube north long elev 54                                  |
| 521       | 158    | Oak Creek #5 |     |     | U2         | 3/19/1982 23:50  | 3/22/1982 9:35      | 57.75             | 1080       | Repair economizer leak repair leak on intermed supth hdr 3 cell |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 3/22/1982 10:15  | 3/22/1982 12:00     | 1.75              | 4299       | Unit trip on relay oil pressur                                  |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 4/3/1982 1:40    | 4/3/1982 3:35       | 1.91              | 4460       | Turbine overspeeds  |
| 521       | 158    | Oak Creek #5 |     |     | PO         | 4/3/1982 6:20    | 8/5/1982 7:17       | 2976.95           | 1800       | Boiler and turbine, annual outage                               |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/7/1982 23:44   | 8/9/1982 4:45       | 29.01             | 8560       | clear precipitator grounds                                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/17/1982 0:20   | 8/19/1982 3:42      | 51.36             | 540        | ruptured reheat tube-replace section of tube                    |
| 521       | 158    | Oak Creek #5 |     |     | U2         | 8/27/1982 0:30   | 8/30/1982 4:33      | 76.05             | 1060       | boiler, reheat leak   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 9/30/1982 23:15  | 10/1/1982 5:35      | 6.33              | 1060       | boiler, repair reheat tube leak EL 54 southeast corner          |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 10/12/1982 15:03 | 10/18/1982 5:38     | 134.58            | 1140       | conv superheater, repair ruptured superheater tube              |
| 521       | 158    | Oak Creek #5 |     |     | U2         | 11/11/1982 0:55  | 11/12/1982 7:05     | 30.16             | 1080       | repair thermocoupling well in south econ inlet header           |
| 521       | 158    | Oak Creek #5 |     |     | U2         | 11/25/1982 0:30  | 12/2/1982 11:25     | 202.91            | 1060       | boiler, repair reheat leaks                                     |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 12/30/1982 0:08  | 12/31/1982 24:00:00 | 47.86             | 1040       | superheat leak  |
| 521       | 158    | Oak Creek #5 |     |     | U2         | 1/1/1983 0:01    | 1/3/1983 6:00       | 53.98             | 1060       | repair reheat leaks   |
| 521       | 158    | Oak Creek #5 |     |     | U2         | 1/3/1983 6:01    | 1/5/1983 2:47       | 44.76             | 1040       | repair superheat leak   |
| 521       | 158    | Oak Creek #5 |     |     | U2         | 1/13/1983 21:00  | 1/16/1983 7:30      | 58.5              | 1060       | repair reheat leaks   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/21/1983 22:50  | 1/22/1983 7:46      | 8.93              | 1440       | repair #3 primary air damper                                    |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/3/1983 23:39   | 2/6/1983 18:00      | 66.35             | 1060       | repair reheat leaks   |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event    | Duration in hours | Cause Code | Description  |
|-----------|--------|--------------|-----|-----|------------|-----------------|-----------------|-------------------|------------|--|
| 521       | 158    | Oak Creek #5 |     |     | U2         | 2/6/1983 18:01  | 2/9/1983 23:37  | 77.6              | 4613       | repair high speed generator inboard hydrogen seal                |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/10/1983 15:30 | 2/10/1983 16:13 | 0.71              | 4262       | intercepting valves closed causing turbine to roll back and trip |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/14/1983 19:22 | 2/15/1983 5:59  | 10.61             | 3110       | repair condenser leaks   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/16/1983 22:15 | 2/20/1983 8:16  | 82.01             | 1040       | repair superheat leak  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/16/1983 9:32  | 2/16/1983 9:50  | 0.3               | 4302       | unit trip-testing low speed governor trap valve                  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/20/1983 8:16  | 2/21/1983 8:17  | 24.01             | 4286       | correct turbine control oil problem                              |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/21/1983 8:20  | 2/21/1983 11:44 | 3.4               | 4140       | high vibration intermediate pressure turbine                     |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/21/1983 11:55 | 2/21/1983 13:25 | 1.5               | 4140       | high vibration intermediate pressure turbine                     |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/28/1983 20:15 | 3/7/1983 7:00   | 154.75            | 1020       | boiler tube leak in convection section                           |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 3/7/1983 7:01   | 3/8/1983 11:34  | 28.55             | 1040       | intermediate superheat tube leak at header north end             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 4/29/1983 23:38 | 5/2/1983 6:11   | 54.55             | 1060       | repair reheater leaks 1 & 4 cells                                |
| 521       | 158    | Oak Creek #5 |     |     | PO         | 5/13/1983 19:49 | 6/12/1983 18:49 | 719               | 1800       | annual outage  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 6/22/1983 17:20 | 6/23/1983 18:35 | 25.25             | 1060       | took unit out to repair reheat leak in #1 cell                   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 6/23/1983 18:35 | 6/24/1983 7:31  | 12.93             | 265        | 51 air heater out of service, won't turn                         |
| 521       | 158    | Oak Creek #5 | *   |     | U3         | 7/19/1983 19:13 | 7/20/1983 18:59 | 23.76             | 1060       | reheat leak on EL 86 south side of boiler                        |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/23/1983 16:58 | 7/25/1983 9:55  | 40.95             | 1060       | broken reheat tube in #1 cell EL 54                              |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 8/2/1983 9:18   | 8/6/1983 18:03  | 104.75            | 1060       | reheat tube rupture  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 8/11/1983 7:10  | 8/12/1983 1:30  | 18.33             | 3440       | internal leaks 6B and 6A feedwater heaters                       |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 8/12/1983 1:30  | 8/12/1983 12:17 | 10.78             | 1050       | repair leak at radiant superheat header                          |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event | Duration in hours | Cause Code   | Description  |
|-----------|--------|--------------|-----|-----|------------|------------------|--------------|-------------------|--------------|--|
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 8/30/1983 20:04  | 9/6/1983     | 7:12              | 155.13 1060  | reheat leak north wall elev 54                     |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 10/6/1983 14:22  | 10/10/1983   | 14:02             | 95.66 1040   | repair superheat leak                              |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 10/27/1983 22:29 | 12/31/1983   | 24:00:00          | 1585.51 1800 | annual outage, extends into '84                    |
| 521       | 158    | Oak Creek #5 |     |     | PO         | 1/1/1984 0:00    | 2/13/1984    | 9:01              | 1041.01 1800 | annual outage. Event is from '83, event number 110 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/15/1984 17:59  | 2/18/1984    | 11:48             | 65.81 4140   | inter. Press. Turb. Bearings                       |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 3/2/1984 20:17   | 3/4/1984     | 22:32             | 50.25 1060   | FIRST REHEATER                                     |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 4/12/1984 23:57  | 4/14/1984    | 3:30              | 27.55 4301   | TURB GOVERNING SYSTEM                              |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 4/14/1984 3:30   | 4/15/1984    | 11:13             | 31.71 1040   | SUPERHEATER LEAK                                   |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 5/25/1984 2:42   | 5/30/1984    | 12:30             | 129.8 4261   | TURBINE CONTROL VALVES                             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/30/1984 12:30  | 5/30/1984    | 17:30             | 5 380        | LIGHT OFF SYSTEMS                                  |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 5/30/1984 17:30  | 5/31/1984    | 9:15              | 15.75 4261   | TURBINE CONTROL VALVES                             |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/31/1984 9:15   | 5/31/1984    | 23:00             | 13.75 1040   | FIRST SUPERHEATER                                  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/31/1984 23:00  | 6/1/1984     | 3:00              | 4 410        | OTHER BURNER PROBLEMS                              |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 6/1/1984 3:00    | 6/1/1984     | 5:11              | 2.18 1040    | FIRST SUPERHEATER                                  |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 6/5/1984 12:58   | 6/9/1984     | 24:00:00          | 107.03 4040  | BEARINGS   |
| 521       | 158    | Oak Creek #5 |     |     | U2         | 6/10/1984 0:01   | 6/10/1984    | 10:45             | 10.73 265    | AIR PREHEATER                                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 6/10/1984 10:45  | 6/11/1984    | 4:52              | 18.11 4040   | BEARINGS   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 6/15/1984 17:39  | 6/17/1984    | 2:57              | 33.3 1040    | SUPERHTR LEAK                                      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/3/1984 11:54   | 7/8/1984     | 14:01             | 122.11 1040  | FIRST SUPERHEATER                                  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event        | Duration in hours | Cause Code | Description               |
|-----------|--------|--------------|-----|-----|------------|------------------|---------------------|-------------------|------------|---------------------------|
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/11/1984 5:39   | 7/11/1984 10:00     | 4.35              | 1060       | FIRST REHEATER            |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 7/11/1984 13:41  | 7/13/1984 9:27      | 43.76             | 1050       | SECOND SUPERHEATER        |
| 521       | 158    | Oak Creek #5 | *   |     | U3         | 8/11/1984 1:11   | 8/11/1984 21:30     | 20.31             | 240        | PULVERIZED COAL BIN       |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 8/11/1984 21:30  | 8/12/1984 3:00      | 5.5               | 240        | PULVERIZED COAL BIN       |
| 521       | 158    | Oak Creek #5 | *   |     | U3         | 8/12/1984 3:01   | 8/12/1984 10:51     | 7.83              | 240        | PULVERIZED COAL BIN       |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 8/20/1984 21:07  | 8/23/1984 11:48     | 62.68             | 1040       | SUPERHEAT LEAK            |
| 521       | 158    | Oak Creek #5 | *   |     | U3         | 9/7/1984 23:42   | 9/9/1984 0:15       | 24.55             | 3131       | AIR EJECTOR PIPING & VLVS |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/10/1984 17:10  | 9/13/1984 20:18     | 75.13             | 1050       | SECOND SUPERHEATER        |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/30/1984 11:03  | 9/30/1984 18:33     | 7.5               | 1070       | SECOND REHEATER           |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 10/16/1984 2:06  | 10/16/1984 21:58    | 19.86             | 3644       | PROTECTION DEVICES        |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 10/31/1984 19:35 | 11/11/1984 13:28    | 257.88            | 1040       | FIRST SUPERHEATER         |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 11/30/1984 22:07 | 12/2/1984 22:25     | 72.3              | 1040       | FIRST SUPERHEATER         |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/8/1984 8:43   | 12/14/1984 21:54    | 157.18            | 1005       | GENERATING TUBES          |
| 521       | 158    | Oak Creek #5 | *   |     | U3         | 12/28/1984 14:58 | 12/31/1984 24:00:00 | 81.03             | 1040       | FIRST SUPERHEATER         |
| 521       | 158    | Oak Creek #5 |     |     | U3         | 1/1/1985 0:01    | 1/2/1985 1:54       | 25.88             | 1040       | FIRST SUPERHEATER         |
| 521       | 158    | Oak Creek #5 |     |     | U2         | 1/17/1985 22:18  | 1/19/1985 10:18     | 36                | 1060       | FIRST REHEATER TUBE LEAKS |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/8/1985 15:54   | 2/9/1985 13:30      | 21.6              | 3440       | HI PRESS HTR TUBE LEAK    |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/9/1985 13:30   | 2/10/1985 8:23      | 18.88             | 1040       | FIRST SUPERHEATER         |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 3/17/1985 12:09  | 3/22/1985 12:36     | 120.45            | 1150       | SECOND SUPERHEATER        |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description             |                               |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------------------|-------------------------------|
| 521       | 158    | Oak Creek #5 |     |     | MO         | 4/2/1985       | 4/6/1985     | 12:00             | 1005       | GENERATING TUBE         |                               |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 4/2/1985       | 4/2/1985     | 1:02              | 1000       | TRIP - UNKOWN           |                               |
| 521       | 158    | Oak Creek #5 |     |     | SF         | 4/6/1985       | 4/9/1985     | 2:35              | 1005       | GENERATING TUBE         |                               |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 4/10/1985      | 4/12/1985    | 17:31             | 3440       | HI PRESS HTR TUBE LEAKS |                               |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/18/1985      | 5/21/1985    | 1:37              | 1050       | SUPERHEATER LEAK        |                               |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 6/3/1985       | 6/5/1985     | 13:00             | 4609       | OTHER EXCITER PROBLEMS  |                               |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 6/5/1985       | 6/7/1985     | 8:59              | 1070       | SECOND REHEATER         |                               |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 6/7/1985       | 6/9/1985     | 6:44              | 1070       | SECOND REHEATER         |                               |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 6/9/1985       | 6/12/1985    | 13:22             | 1050       | SUPERHEATER LEAK        |                               |
| 521       | 158    | Oak Creek #5 |     |     | PO         | 6/27/1985      | 8/15/1985    | 5:50              | 1800       | ANNUAL OUTAGE           |                               |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/16/1985      | 8/19/1985    | 10:26             | 880        | FLYASH HANDLING         |                               |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/27/1985      | 8/28/1985    | 14:07             | 1040       | FIRST SUPERHEATER       |                               |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 9/18/1985      | 9/22/1985    | 23:11             | 1040       | FIRST SUPERHEATER       |                               |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 10/1/1985      | 10/3/1985    | 10:26             | 41.3       | 1070                    | SECOND REHEATER               |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 10/3/1985      | 10/4/1985    | 4:54              | 16.66      | 4290                    | HYDRAULIC SYSTEM PUMPS        |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 10/11/1985     | 10/15/1985   | 13:59             | 89.15      | 1050                    | SUPERHEAT LEAK                |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 10/21/1985     | 10/21/1985   | 23:30             | 17.83      | 920                     | FLYASH EQUIPMENT BREAKDOWN    |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 10/26/1985     | 10/31/1985   | 19:24             | 116.95     | 1050                    | SUPERHEAT LEAK                |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 12/27/1985     | 12/29/1985   | 22:50             | 68.75      | 8560                    | ELECTROSTATIC PRECIP PROBLEMS |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event | Duration in hours | Cause Code | Description |  |
|-----------|--------|--------------|-----|-----|------------|-----------------|--------------|-------------------|------------|-------------|--|
| 521       | 158    | Oak Creek #5 |     |     | U1         | 12/31/1985 7:58 | 12/31/1985   | 24:00:00          | 16.03      | 90          | FUEL BIN EXPLOSION                           |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/1/1986 0:01   | 1/5/1986     | 17:35             | 113.56     | 90          | FUEL BIN EXPLOSION. EVENT STARTED 12-31-85   |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/6/1986 22:47  | 1/7/1986     | 6:18              | 7.51       | 880         | FLYASH SYSTEM PROBLEMS                       |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/24/1986 16:50 | 2/5/1986     | 0:09              | 271.31     | 1005        | GENERATING TUBE LEAK                         |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 3/10/1986 21:40 | 3/14/1986    | 13:10             | 87.5       | 8560        | PRECIPITATORS FIELD GROUNDS                  |
| 521       | 158    | Oak Creek #5 |     |     | SE         | 3/14/1986 13:10 | 3/17/1986    | 11:59             | 70.81      | 1005        | GENERATING TUBE LEAK                         |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 4/7/1986 15:53  | 4/8/1986     | 4:00              | 12.11      | 1060        | FIRST REHEATER TUBE LEAK                     |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 4/8/1986 4:00   | 4/13/1986    | 7:07              | 123.11     | 1040        | FIRST SUPERHEATER                            |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 4/15/1986 0:58  | 4/17/1986    | 3:00              | 50.03      | 1040        | FIRST SUPERHEATER                            |
| 521       | 158    | Oak Creek #5 | *   |     | SF         | 4/17/1986 3:00  | 4/17/1986    | 23:58             | 20.96      | 4640        | SEAL OIL SYSTEM AND SEALS                    |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 4/18/1986 14:17 | 4/20/1986    | 12:30             | 46.21      | 1040        | FIRST SUPERHEATER                            |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 4/20/1986 12:30 | 4/21/1986    | 21:44             | 33.23      | 1005        | CONVECTION TUBE                              |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 4/25/1986 21:51 | 4/28/1986    | 4:33              | 54.7       | 4140        | A4 TURBINE BEARING LEAK                      |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 4/28/1986 11:10 | 5/1/1986     | 13:03             | 73.88      | 4140        | A4 TURBINE BRG OIL LEAK                      |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 5/1/1986 22:06  | 5/9/1986     | 17:53             | 187.78     | 4140        | A4 TURBINE BRG OIL LEAK                      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 5/10/1986 7:25  | 5/10/1986    | 21:24             | 13.98      | 3440        | INTERNAL LEAKAGE 7A FDWTR 2ND SET OF HEATERS |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 6/18/1986 17:04 | 6/22/1986    | 19:30             | 98.43      | 1020        | CONVECTION PASS TUBE LEAK                    |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 6/23/1986 7:35  | 6/23/1986    | 19:17             | 11.7       | 3440        | A&B FEEDWATER HEATER LEAKS                   |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/2/1986 16:37  | 7/6/1986     | 4:34              | 83.95      | 1020        | CONVECTION PASS TUBE LEAK                    |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                     |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|---------------------------------|
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 7/6/1986 12:00   | 7/7/1986 11:15   | 23.25             | 1050       | SECOND SUPERHEATER              |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/10/1986 1:12   | 7/10/1986 1:52   | 0.66              | 9900       | OPERATOR ERROR                  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/10/1986 1:52   | 7/11/1986 14:35  | 36.71             | 1040       | FIRST SUPERHEATER LEAK          |
| 521       | 158    | Oak Creek #5 | *   |     | SF         | 7/11/1986 14:35  | 7/13/1986 10:38  | 44.05             | 1040       | FIRST SUPERHEATER LEAK          |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/13/1986 14:35  | 7/13/1986 15:07  | 0.53              | 4299       | HYDRAULIC SYSTEM PROBLEMS       |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 7/19/1986 4:18   | 9/29/1986 13:45  | 1737.45           | 1800       | ANNUAL OUTAGE                   |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/29/1986 13:45  | 10/5/1986 0:30   | 130.75            | 265        | OTHER AIR PREHEATER PROBLEMS    |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 10/5/1986 0:30   | 10/9/1986 9:15   | 104.75            | 1005       | GENERATING TUBE LEAK            |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 10/17/1986 0:04  | 10/19/1986 6:32  | 54.46             | 4299       | OTHER HYDRAULIC SYSTEM PROBLEMS |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 10/21/1986 1:22  | 10/23/1986 12:00 | 58.63             | 8560       | ELECTROSTATIC PRECIP PROBLEMS   |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 10/23/1986 12:00 | 11/11/1986 13:21 | 457.35            | 1510       | FLUEGAS DUCTS                   |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 11/15/1986 18:50 | 11/16/1986 11:52 | 17.03             | 8560       | PRECIPITATION INSPECTION        |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 12/12/1986 21:45 | 12/14/1986 6:27  | 32.7              | 8560       | PRECIPITATOR PROBLEM            |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 1/9/1987 20:46   | 1/11/1987 1:33   | 28.78             | 520        | REPLACE SUPERHTR DRAIN VLV      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/9/1987 9:31    | 2/9/1987 10:39   | 1.13              | 4299       | OTHER HYDRAULIC SYSTEM PROBLEMS |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/9/1987 10:54   | 2/9/1987 20:54   | 10                | 4260       | MAIN STOP VALVE                 |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/19/1987 10:22  | 2/19/1987 11:08  | 0.76              | 4299       | OTHER HYDRAULIC SYSTEM PROBLEMS |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 4/10/1987 19:04  | 7/17/1987 12:15  | 2345.18           | 1800       | ANNUAL OUTAGE                   |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/17/1987 22:02  | 7/20/1987 10:18  | 60.26             | 4289       | INTERMEDIATE PRESS TRBN BRNG    |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event        | Duration in hours | Cause Code | Description                    |
|-----------|--------|--------------|-----|-----|------------|------------------|---------------------|-------------------|------------|--------------------------------|
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 7/23/1987 10:48  | 7/25/1987 3:59      | 41.18             | 1040       | SUPERHEAT LEAK                 |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 8/4/1987 23:46   | 8/5/1987 19:19      | 19.54             | 3110       | CONDENSER TUBE LEAK            |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 8/13/1987 20:18  | 8/17/1987 13:48     | 89.5              | 4260       | REMOVE STEAM STRAINERS         |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 8/20/1987 13:23  | 8/23/1987 3:02      | 61.65             | 1050       | SUPERHEAT PENDANT TUBE FAILURE |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 9/7/1987 7:12    | 9/7/1987 7:42       | 0.5               | 4460       | TURBINE OVERSPEED TEST         |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 9/10/1987 22:15  | 9/12/1987 17:45     | 43.5              | 1040       | FIRST SUPERHEATER              |
| 521       | 158    | Oak Creek #5 |     |     | U2         | 10/4/1987 3:07   | 10/11/1987 11:10    | 176.05            | 4261       | CONTROL VALVES                 |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 10/30/1987 22:31 | 11/1/1987 14:30     | 39.98             | 1070       | SECOND REHEATER                |
| 521       | 158    | Oak Creek #5 |     |     | U2         | 1/16/1988 1:18   | 1/19/1988 0:07      | 70.81             | 1050       | SECOND SUPERHEATER             |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 5/28/1988 0:12   | 5/28/1988 6:50      | 6.63              | 4261       | CONTROL VALVES                 |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 8/20/1988 17:38  | 8/22/1988 7:51      | 38.21             | 1040       | RADIANT SUPERHEAT LEAK         |
| 521       | 158    | Oak Creek #5 |     |     | MO         | 8/26/1988 22:04  | 8/29/1988 8:34      | 58.5              | 1040       | RADIANT SUPERHEAT LEAK         |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 8/30/1988 18:24  | 8/30/1988 23:12     | 4.8               | 3150       | LOSS OF VACUUM                 |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 10/3/1988 21:20  | 10/4/1988 9:44      | 12.4              | 880        | FLY ASH HANDLING               |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 11/16/1988 13:05 | 11/16/1988 14:00    | 0.91              | 3344       | DEAERATOR                      |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 11/16/1988 14:01 | 11/24/1988 21:52    | 199.85            | 8560       | ELECTROSTATIC PRECIPITATOR     |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 11/28/1988 23:46 | 11/29/1988 11:55    | 12.15             | 3110       | CONDENSOR TUBE LEAKS           |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 12/15/1988 23:33 | 12/17/1988 1:24     | 25.85             | 1005       | GENERATING TUBES               |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 12/28/1988 0:01  | 12/31/1988 24:00:00 | 95.98             | 1800       | RENOVATION OUTAGE              |



| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description                                      |
|-----------|--------|--------------|-----|-----|------------|----------------|------------------|-------------------|------------|--|
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 1/1/1989       | 0:01 6/17/1989   | 15:33             | 4023.5     | 1800 ANNUAL OUTAGE STARTED 12-28-88              |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 6/26/1989      | 1:05 6/26/1989   | 2:15              | 1.16       | 4700 GENERATOR VOLTAGE CONTROLS                  |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 6/26/1989      | 23:16 6/29/1989  | 7:30              | 56.23      | 1040 FIRST SUPERHEATER                           |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 10/1/1989      | 23:03 10/9/1989  | 9:19              | 178.26     | 1050 CONVECTION SUPERHEAT TUBE 947349 000000     |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 10/16/1989     | 22:59 10/19/1989 | 10:22             | 59.38      | 310 PULV MILL PROBLEM                            |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 10/24/1989     | 8:27 10/24/1989  | 11:57             | 3.5        | 4499 OTHER STEAM TURBINE PROBL                   |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/8/1989      | 6:30 12/14/1989  | 7:05              | 144.58     | 1005 GENERATING TUBE                             |
| 521       | 158    | Oak Creek #5 | *   |     | SF         | 12/14/1989     | 7:05 12/14/1989  | 10:03             | 2.96       | 3612 SWITCHYARD SYSTEM                           |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/14/1989     | 16:01 12/14/1989 | 17:46             | 1.75       | 4292 HYDRAULIC SYSTEM FILTERS                    |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 1/17/1990      | 2:25 1/18/1990   | 23:45             | 45.33      | 340 PUL. VENTAGE PROBLEMS                        |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 1/18/1990      | 23:45 1/20/1990  | 12:16             | 36.51      | 855 BLR. DRUM RELIEF / SAFETY VALVES             |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 3/2/1990       | 3:04 3/2/1990    | 5:24              | 2.33       | 4262 INTERCEPT VALVES                            |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 3/25/1990      | 1:56 3/25/1990   | 5:10              | 3.23       | 4262 INTERCEPT VALVES                            |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 5/19/1990      | 1:20 5/21/1990   | 6:39              | 59.31      | 1070 SECOND REHEATER                             |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 9/7/1990       | 19:04 12/31/1990 | 24:00:00          | 2788.93    | 1800 PLANNED MAINTENANCE OUTAGE                  |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 1/1/1991       | 0:01 1/16/1991   | 18:22             | 378.35     | 1800 PLANNED MAINTENANCE OUTAGE - STARTED 9-7-90 |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 1/24/1991      | 13:13 1/25/1991  | 1:20              | 12.11      | 3634 480V PROTECTION DEVICES                     |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 1/25/1991      | 19:35 1/29/1991  | 0:32              | 76.94      | 270 PRIMARY AIR DUCTS & DAMPERS                  |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 1/29/1991      | 7:36 1/29/1991   | 13:42             | 6.1        | 3430 FDWTR REGULATING VALVE                      |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event    | Duration in hours | Cause Code | Description                      |
|-----------|--------|--------------|-----|-----|------------|-----------------|-----------------|-------------------|------------|----------------------------------|
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 2/2/1991 14:20  | 2/2/1991 16:33  | 2.21              | 9910       | MAINTENANCE ERROR                |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 2/16/1991 0:37  | 2/18/1991 3:12  | 50.58             | 1800       | MAINTENANCE OUTAGE               |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 2/18/1991 5:36  | 2/18/1991 5:55  | 0.31              | 1799       | OTHER CONTROL PROBLEMS           |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 2/21/1991 1:03  | 2/21/1991 1:30  | 0.45              | 4302       | HI SPEED TURB TRIP SYSTEM        |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 2/21/1991 6:10  | 2/21/1991 6:31  | 0.35              | 1799       | OTHER CONTROL PROBLEMS           |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 2/23/1991 18:00 | 2/23/1991 20:01 | 2.01              | 1799       | OTHER CONTROL PROBLEMS           |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 4/5/1991 2:31   | 4/5/1991 5:31   | 3                 | 4302       | HIGH SPEED TURB TRIP SYSTEM      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 4/13/1991 3:17  | 4/13/1991 4:57  | 1.66              | 3412       | FDWTR PUMP DRIVE - STEAM TURB    |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 4/18/1991 0:47  | 4/18/1991 1:37  | 0.83              | 4302       | HIGH SPEED TURB TRIP SYSTEM      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 4/29/1991 4:25  | 4/29/1991 4:45  | 0.33              | 1799       | OTHER CONTROL PROBLEMS           |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 5/7/1991 2:36   | 5/7/1991 3:06   | 0.5               | 1710       | COMBUSTION / STM CONDITION CTRLS |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 5/28/1991 14:28 | 5/28/1991 15:11 | 0.71              | 1710       | COMBUSTION CONTROLS              |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 5/28/1991 17:26 | 5/28/1991 17:59 | 0.55              | 1710       | COMBUSTION CONTROLS              |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 5/28/1991 19:41 | 5/28/1991 20:24 | 0.71              | 1710       | COMBUSTION CONTROLS              |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 8/11/1991 16:56 | 8/11/1991 18:08 | 1.2               | 9910       | MAINTENANCE ERROR                |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 8/12/1991 5:20  | 8/12/1991 7:48  | 2.46              | 250        | 53 MILL FEEDER TRIP              |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 8/23/1991 10:03 | 8/25/1991 21:28 | 59.41             | 1060       | FIRST REHEATER                   |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 8/27/1991 19:16 | 8/29/1991 17:00 | 45.73             | 1040       | FIRST SUPERHEATER                |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 8/29/1991 17:00 | 9/7/1991 18:35  | 217.58            | 4260       | MAIN STOP VALVE                  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event     | Duration in hours | Cause Code | Description                              |
|-----------|--------|--------------|-----|-----|------------|-----------------|------------------|-------------------|------------|--|
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/18/1991 4:33  | 9/18/1991 5:39   | 1.1               | 4700       | GENERATOR VOLTAGE CONTROLS               |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 10/24/1991 5:48 | 10/24/1991 6:15  | 0.45              | 1710       | COMBUSTION CONTROLS                      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 10/24/1991 6:43 | 10/24/1991 7:12  | 0.48              | 1710       | COMBUSTION CONTROLS                      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 10/25/1991 5:59 | 10/25/1991 6:26  | 0.45              | 1710       | COMBUSTION CONTROLS                      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 11/30/1991 3:58 | 11/30/1991 6:42  | 2.73              | 1710       | COMBUSTION CONTROLS                      |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 12/30/1991 0:01 | 12/31/1991 23:59 | 47.96             | 1800       | PLANNED MAINT. OUTAGE                    |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 1/1/1992 0:02   | 2/1/1992 20:46   | 764.73            | 1800       | PLANNED MAINT. OUTAGE (STARTED 12-30-91) |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 2/1/1992 21:15  | 2/1/1992 23:13   | 1.96              | 338        | PULVERIZER CONTROL SYS                   |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 2/1/1992 1:35   | 2/2/1992 3:28    | 1.88              | 9910       | MAINTENANCE ERROR                        |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 2/2/1992 17:45  | 2/3/1992 18:10   | 24.41             | 4283       | LUBE OIL SYS VALVES & PIPING             |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 2/5/1992 9:52   | 2/5/1992 11:17   | 1.41              | 3412       | FEED PUMP DRIVE STEAM TURBINE            |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 2/14/1992 0:05  | 2/14/1992 18:07  | 0.752083333       | 9910       | MAINTENANCE ERROR                        |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 3/15/1992 4:40  | 3/15/1992 5:22   | 0.7               | 3412       | FEED PUMP DRIVE STEAM TURBINE            |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 3/27/1992 3:48  | 3/27/1992 4:10   | 0.36              | 3113       | CONDENSER TUBE & WTRBX CLEANING          |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 3/27/1992 4:17  | 3/27/1992 4:47   | 0.5               | 1700       | FEEDWATER CONTROLS                       |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/1/1992 9:45   | 7/1/1992 11:45   | 2                 | 380        | LIGHT OFF IGNITERS                       |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/1/1992 13:14  | 7/1/1992 22:36   | 9.36              | 380        | LIGHT OFF IGNITERS                       |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/16/1992 13:22 | 7/16/1992 16:15  | 2.88              | 1799       | OTHER CONTROL PROBLEMS                   |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/19/1992 16:00 | 7/19/1992 16:16  | 0.26              | 380        | LIGHT OFF IGNITERS                       |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                   |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|-------------------------------|
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/19/1992 17:01  | 7/19/1992 17:10  | 0.15              | 380        | LIGHT OFF IGNITERS            |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/19/1992 17:34  | 7/19/1992 17:45  | 0.18              | 380        | LIGHT OFF IGNITERS            |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/28/1992 0:17   | 7/28/1992 0:39   | 0.36              | 1710       | COMBUSTION CONTROLS           |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 8/10/1992 20:52  | 8/10/1992 22:34  | 1.7               | 1750       | BURNER MANAGEMENT SYSTEM      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/7/1992 21:32   | 9/7/1992 22:26   | 0.9               | 1750       | BURNER MANAGEMENT SYSTEM      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/9/1992 10:14   | 9/9/1992 11:07   | 0.88              | 1750       | BURNER MANAGEMENT SYSTEM      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/9/1992 21:39   | 9/9/1992 23:23   | 1.73              | 1750       | BURNER MANAGEMENT SYSTEM      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 10/4/1992 22:42  | 10/4/1992 23:30  | 0.75              | 380        | LIGHT OFF SYSTEMS             |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 10/5/1992 0:52   | 10/5/1992 2:13   | 1.35              | 380        | LIGHT OFF SYSTEMS             |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 10/7/1992 23:37  | 10/8/1992 12:30  | 12.88             | 4430       | GLAND SEAL SYSTEM             |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 10/8/1992 12:30  | 10/9/1992 6:37   | 18.11             | 1090       | RADIANT SUPERHEAT LEAK        |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 11/12/1992 21:54 | 11/14/1992 12:45 | 38.84             | 1090       | OTHER BIOLER TUBE LEAKS       |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 11/20/1992 3:43  | 11/20/1992 4:08  | 0.41              | 9270       | WET COAL                      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/8/1992 17:21  | 12/9/1992 2:43   | 9.36              | 1799       | OTHER BOILER CONTROL PROBLEMS |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/9/1992 3:17   | 12/9/1992 3:52   | 0.58              | 380        | LIGHT OFF SYSTEMS             |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/9/1992 8:37   | 12/9/1992 10:13  | 1.6               | 380        | LIGHT OFF SYSTEMS             |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/13/1992 21:20 | 12/14/1992 1:46  | 4.43              | 380        | LIGHT OFF SYSTEMS             |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/14/1992 2:46  | 12/17/1992 2:45  | 71.98             | 1040       | FIRST SUPERHEATER             |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 12/17/1992 2:45  | 12/18/1992 16:30 | 37.75             | 1320       | TUBE SUPPORTS / ATTACHMENTS   |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description |                              |
|-----------|--------|--------------|-----|-----|------------|----------------|------------------|-------------------|------------|-------------|------------------------------|
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/20/1992     | 7:33 12/20/1992  | 10:13             | 2.66       | 340         | OTHER PULVERIZER PROBLEMS    |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/20/1992     | 16:37 12/20/1992 | 17:40             | 1.04       | 380         | LIGHT OFF IGNITERS           |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/20/1992     | 21:50 12/20/1992 | 22:10             | 0.33       | 380         | LIGHT OFF IGNITERS           |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/31/1992     | 0:07 12/31/1992  | 0:31              | 0.4        | 4302        | LO SPEED TURB TRIP DEVICE    |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 1/1/1993       | 1:48 1/1/1993    | 2:15              | 0.45       | 1750        | BURNER MANAGEMENT SYSTEM     |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 1/5/1993       | 5:56 1/5/1993    | 9:07              | 3.18       | 3950        | PROCESS COMPUTER             |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 1/17/1993      | 13:02 1/17/1993  | 14:35             | 1.55       | 0:00        | FEEDWATER CONTROLS           |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 1/17/1993      | 17:43 1/17/1993  | 18:07             | 0.4        | 1750        | BURNER MANAGEMENT SYSTEM     |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 1/25/1993      | 10:38 1/29/1993  | 3:15              | 88.61      | 1060        | FIRST REHEATER               |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 3/20/1993      | 9:42 4/30/1993   | 15:31             | 989.81     | 1800        | PLANNED MAINTENANCE OUTAGE   |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 5/1/1993       | 2:17 5/1/1993    | 2:39              | 0.36       | 1710        | COMBUSTION CONTROLS          |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 5/1/1993       | 15:00 5/1/1993   | 16:09             | 1.15       | 1710        | COMBUSTION CONTROLS          |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 5/19/1993      | 1:04 5/19/1993   | 1:30              | 0.43       | 1990        | BOILER PERFORMANCE TESTING   |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 5/20/1993      | 1:36 5/20/1993   | 1:55              | 0.31       | 1990        | BOILER PERFORMANCE TESTING   |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 5/20/1993      | 17:18 5/20/1993  | 17:51             | 0.55       | 1710        | COMBUSTION CONTROLS          |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 5/20/1993      | 20:11 5/20/1993  | 20:36             | 0.41       | 1710        | COMBUSTION CONTROLS          |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 6/16/1993      | 2:43 6/16/1993   | 3:29              | 0.76       | 4293        | HYDRALIC SYSTEM PIPES & VLVS |
| 521       | 158    | Oak Creek #5 | *   |     | SF         | 9/25/1993      | 11:13 9/25/1993  | 11:50             | 0.61       | 1710        | COMBUSTION CONTROLS          |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 10/16/1993     | 7:55 10/16/1993  | 9:47              | 1.86       | 4601        | EXCITATION FIELD RHEOSTAT    |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description              |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|--------------------------|
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 11/6/1993 16:36  | 11/6/1993 17:59  | 1.38              | 3950       | PROCESS COMPUTER         |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 11/16/1993 22:51 | 11/22/1993 11:00 | 132.14            | 4520       | GENERATOR STATOR GROUND  |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 11/22/1993 11:00 | 11/23/1993 1:09  | 14.15             | 4613       | HYDROGEN SEAL HS         |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 12/27/1993 1:01  | 12/31/1993 23:59 | 118.96            | 4240       | LP TURBINE BEARING       |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 1/1/1994 0:02    | 1/3/1994 17:26   | 65.4              | 4240       | LP TURBINE BEARING       |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 1/6/1994 10:53   | 1/6/1994 12:39   | 1.76              | 1700       | FEEDWATER CONTROLS       |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 3/25/1994 6:07   | 3/25/1994 8:13   | 2.09              | 1710       | COMBUSTION CONTROLS      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 6/3/1994 16:29   | 6/8/1994 8:00    | 111.51            | 1090       | OTHER BOILER TUBE LEAK   |
| 521       | 158    | Oak Creek #5 | *   |     | SF         | 6/12/1994 9:15   | 6/16/1994 5:23   | 92.13             | 4260       | MAIN STOP VALVE          |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 7/1/1994 22:48   | 7/4/1994 4:07    | 53.31             | 1090       | OTHER BOILER TUBE LEAK   |
| 521       | 158    | Oak Creek #5 | *   |     | SF         | 7/4/1994 4:07    | 7/4/1994 5:06    | 0.98              | 380        | LIGHT OFF SYSTEM         |
| 521       | 158    | Oak Creek #5 | *   |     | U3         | 7/8/1994 1:17    | 7/8/1994 9:09    | 7.86              | 3119       | CONDENSER TUBE LEAK      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/30/1994 11:03  | 7/30/1994 13:50  | 2.78              | 9900       | OPERATOR ERROR           |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 9/6/1994 22:40   | 9/11/1994 13:10  | 110.5             | 1050       | SECOND SUPERHEATER       |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/21/1994 14:29  | 9/21/1994 17:02  | 2.55              | 1570       | BURNER MANAGEMENT SYSTEM |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/22/1994 1:20   | 9/22/1994 2:59   | 1.65              | 1570       | BURNER MANAGEMENT SYSTEM |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/22/1994 3:24   | 9/22/1994 6:18   | 2.9               | 1570       | BURNER MANAGEMENT SYSTEM |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 10/9/1994 22:53  | 10/12/1994 10:47 | 59.9              | 1040       | FIRST SUPERHEAT          |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 10/18/1994 7:03  | 10/18/1994 7:46  | 0.71              | 1710       | COMBUSTION CONTROLS      |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |      |                                  |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|------|----------------------------------|
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 10/19/1994     | 1:31         | 10/19/1994        | 1:59       | 0.46        | 1710 | COMBUSTION CONTROLS              |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 12/1/1994      | 0:27         | 12/13/1994        | 2:00       | 289.54      | 1800 | PLANNED ANNUAL OUTAGE            |
| 521       | 158    | Oak Creek #5 | *   |     | SF         | 12/13/1994     | 2:00         | 12/15/1994        | 6:14       | 52.23       | 1005 | GENERATING TUBE                  |
| 521       | 158    | Oak Creek #5 | *   |     | SF         | 12/15/1994     | 6:14         | 12/15/1994        | 18:14      | 12          | 3644 | PROTECTION DEVICES               |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 12/20/1994     | 21:28        | 12/21/1994        | 8:24       | 10.93       | 3110 | CONDENSER TUBE LEAK              |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 3/1/1995       | 3:40         | 3/1/1995          | 4:50       | 1.16        | 3271 | INTAKE GRATING FOULING           |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 3/28/1995      | 23:04        | 4/2/1995          | 21:43      | 118.65      | 1060 | FIRST REHEATER                   |
| 521       | 158    | Oak Creek #5 | *   |     | SF         | 4/2/1995       | 21:43        | 4/2/1995          | 23:09      | 1.43        | 380  | LOSS OF FLAME IGNITORS           |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 4/3/1995       | 13:19        | 4/3/1995          | 13:34      | 0.25        | 1710 | COMBUSTION CONTROLS              |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 4/4/1995       | 1:15         | 4/4/1995          | 1:40       | 0.41        | 4750 | TEST REVERSE POWER RELAY         |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 5/2/1995       | 9:10         | 5/8/1995          | 1:23       | 136.21      | 1005 | GENERATING TUBE                  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 5/10/1995      | 19:47        | 5/16/1995         | 2:34       | 126.78      | 1005 | GENERATING TUBE                  |
| 521       | 158    | Oak Creek #5 | *   |     | SF         | 7/4/1995       | 17:00        | 7/8/1995          | 0:32       | 79.53       | 4240 | TURBINE BEARINGS                 |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/13/1995      | 12:21        | 7/13/1995         | 13:20      | 0.98        | 3499 | OTHER FDWTR SYS PROBLEMS         |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/13/1995      | 20:53        | 7/13/1995         | 21:58      | 1.08        | 3499 | OTHER FDWTR SYS PROBLEMS         |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/16/1995      | 0:39         | 7/16/1995         | 1:13       | 0.56        | 9270 | WET COAL                         |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 9/1/1995       | 0:20         | 9/4/1995          | 17:57      | 89.61       | 670  | FDWTR PPNG DOWNSTREAM OF REG VLV |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 11/11/1995     | 0:42         | 12/27/1995        | 2:26       | 1129.73     | 4510 | ROTOR COLLECTOR RINGS            |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/29/1995     | 10:52        | 12/29/1995        | 11:35      | 0.71        | 4309 | TURB CONTROL SYS DIGITAL CONTRO  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description  |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|--|
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 5/30/1996 5:19   | 6/3/1996 20:30   | 111.18            | 4260       | NIL  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 6/5/1996 12:40   | 6/9/1996 13:44   | 97.06             | 1040       | NIL  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 6/12/1996 17:16  | 6/24/1996 8:04   | 278.79            | 1040       | NIL  |
| 521       | 158    | Oak Creek #5 | *   |     | U3         | 8/23/1996 1:38   | 8/24/1996 1:15   | 23.61             | 3110       | NIL  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 8/26/1996 19:24  | 9/2/1996 0:54    | 149.5             | 1040       | NIL  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/3/1996 12:03   | 9/8/1996 14:15   | 122.2             | 1040       | NIL  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/10/1996 0:36   | 9/19/1996 15:59  | 231.38            | 1040       | NIL  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/19/1996 19:23  | 9/19/1996 19:45  | 0.36              | 380        |  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/23/1996 8:18   | 9/23/1996 8:45   | 0.45              | 1470       |  |
| 521       | 158    | Oak Creek #5 | *   |     | U3         | 11/21/1996 12:00 | 11/25/1996 3:46  | 87.76             | 4611       |  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 11/25/1996 3:46  | 11/26/1996 5:25  | 25.65             | 1055       |  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 12/20/1996 2:51  | 12/20/1996 13:30 | 10.65             | 250        |  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 2/21/1997 17:43  | 2/21/1997 23:30  | 5.78              | 3950       | DPU51 Failure Initiated Unit Trip Due to Computer Communication Problems |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 3/4/1997 0:56    | 3/8/1997 13:05   | 108.15            | 4611       | Maint Outage Replace Hydrogen Cooler Gaskets                             |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 3/10/1997 8:26   | 3/17/1997 20:36  | 180.16            | 1040       | Superheat Leak   |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 3/22/1997 19:38  | 3/27/1997 18:56  | 119.3             | 1040       | Superheat Tube Leak  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 4/8/1997 10:24   | 4/15/1997 2:17   | 159.88            | 1040       | Superheat Tube Leak  |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 5/8/1997 20:33   | 5/11/1997 19:03  | 70.5              | 1040       | Superheat Tube Leak  |
| 521       | 158    | Oak Creek #5 | *   |     | U3         | 5/16/1997 16:24  | 5/18/1997 19:45  | 51.35             | 1040       | Delayed Outage to Repair Tube Leak                                       |



| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event    | Duration in hours | Cause Code | Description |  |
|-----------|--------|--------------|-----|-----|------------|----------------|-----------------|-------------------|------------|-------------|--|
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 5/22/1997      | 0:04 5/22/1997  | 16:30             | 16.43      | 4293        | Repair EHC Piping Leak                   |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 7/29/1997      | 15:31 7/29/1997 | 16:40             | 1.15       | 3416        | Steam Boiler Feed Pump Trip              |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 8/11/1997      | 18:59 8/16/1997 | 15:41             | 116.7      | 1040        | Superheat Tube Leak                      |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 8/20/1997      | 7:49 8/26/1997  | 22:05             | 158.26     | 1040        | Superheat Tube Leak                      |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 12/26/1997     | 4:18 12/31/1997 | 23:59             | 139.68     | 1800        | Planned Annual Outage                    |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 1/1/1998       | 0:01 4/3/1998   | 13:03             | 2221.03    | 1800        | Planned Annual Outage (started 12-26-97) |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 5/6/1998       | 23:04 5/7/1998  | 6:20              | 7.26       | 4430        | Gland Seal System                        |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 5/23/1998      | 5:26 5/30/1998  | 18:24             | 180.96     | 4260        | Main Stop Valves                         |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 6/13/1998      | 16:22 6/13/1998 | 16:53             | 0.51       | 3950        | Failure of Unit Computer                 |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 6/16/1998      | 0:21 6/16/1998  | 14:45             | 14.4       | 3110        | Condenser Tube Leak                      |
| 521       | 158    | Oak Creek #5 | *   |     | SF         | 6/16/1998      | 14:45 6/20/1998 | 12:30             | 93.75      | 4609        | Other Exciter Problems                   |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 6/20/1998      | 12:30 6/21/1998 | 1:21              | 12.85      | 9900        | Operator Error                           |
| 521       | 158    | Oak Creek #5 | *   |     | PO         | 7/4/1998       | 17:18 7/4/1998  | 19:08             | 1.83       | 4460        | Overspeed Trip Test                      |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 7/11/1998      | 1:15 7/13/1998  | 5:22              | 52.11      | 4640        | Seal System and Seals                    |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 7/23/1998      | 7:28 7/24/1998  | 22:47             | 39.31      | 800         | Repair South Drum Door Leak              |
| 521       | 158    | Oak Creek #5 | *   |     | U2         | 9/11/1998      | 17:28 9/12/1998 | 6:14              | 12.76      | 8550        | Precipitator Fouling                     |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/14/1998      | 7:30 9/14/1998  | 13:40             | 6.16       | 3261        | Travelling Screen Fouling                |
| 521       | 158    | Oak Creek #5 | *   |     | U1         | 9/19/1998      | 10:17 9/19/1998 | 10:55             | 0.63       | 410         | Burner Problems                          |
| 521       | 158    | Oak Creek #5 | *   |     | MO         | 9/25/1998      | 23:21 10/2/1998 | 2:30              | 147.14     | 1800        | Maintenance Outage                       |



| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|
| 521       | 168    | Oak Creek #6 |     |     | PO         | 1/1/1977       | 1/30/1977    | 22:36             | 1999       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/1/1977       | 2/1/1977     | 2:53              | 4301       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/11/1977      | 2/13/1977    | 23:29             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/19/1977      | 2/21/1977    | 0:03              | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/22/1977      | 2/24/1977    | 12:55             | 1080       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/5/1977       | 3/7/1977     | 6:16              | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/11/1977      | 3/14/1977    | 3:59              | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/14/1977      | 3/16/1977    | 5:50              | 1040       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 4/3/1977       | 4/6/1977     | 4:12              | 1005       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/7/1977       | 5/9/1977     | 3:38              | 1100       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/19/1977      | 5/20/1977    | 3:10              | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/28/1977      | 5/30/1977    | 15:19             | 1040       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 6/11/1977      | 6/14/1977    | 2:20              | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 6/14/1977      | 6/15/1977    | 5:17              | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 6/15/1977      | 6/17/1977    | 4:49              | 1040       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 7/7/1977       | 7/11/1977    | 2:56              | 1000       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 7/26/1977      | 7/27/1977    | 0:01              | 8560       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 7/31/1977      | 7/31/1977    | 20:08             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/1/1977       | 8/2/1977     | 1:44              | 4609       |             |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/11/1977      | 8/12/1977    | 15:49             | 39.59      | 1060        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/27/1977      | 8/29/1977    | 19:10             | 66.91      | 1060        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/9/1977       | 9/12/1977    | 4:48              | 53.26      | 1060        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/18/1977      | 9/18/1977    | 23:58             | 17.13      | 1455        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/24/1977      | 9/26/1977    | 4:50              | 51.03      | 1040        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/28/1977      | 9/29/1977    | 6:29              | 8.71       | 340         |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 10/16/1977     | 10/22/1977   | 5:47              | 140.6      | 1005        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 11/18/1977     | 11/21/1977   | 8:07              | 56.35      | 1060        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 11/25/1977     | 11/27/1977   | 1:23              | 28.16      | 1060        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 12/23/1977     | 12/24/1977   | 3:30              | 26.95      | 1060        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/4/1978       | 1/5/1978     | 23:40             | 30.16      | 1000        |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 1/7/1978       | 2/28/1978    | 6:13              | 1253       | 1999        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/28/1978      | 3/2/1978     | 4:10              | 43.45      | 4099        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/10/1978      | 3/11/1978    | 13:30             | 15.7       | 8560        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/20/1978      | 3/20/1978    | 20:58             | 1.88       | 340         |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/21/1978      | 3/23/1978    | 4:47              | 39.41      | 1040        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/23/1978      | 3/26/1978    | 19:04             | 70.81      | 4640        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 4/18/1978      | 4/19/1978    | 6:06              | 8.1        | 4269        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 4/24/1978      | 4/24/1978    | 19:58             | 19.21      | 1080        |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|-------------|
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/11/1978 13:10  | 5/14/1978 11:58  | 70.8              | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/23/1978 9:29   | 5/24/1978 12:05  | 26.6              | 1080       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 6/6/1978 13:06   | 6/8/1978 7:43    | 42.61             | 1000       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 7/1/1978 0:57    | 7/5/1978 1:12    | 96.25             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/2/1978 21:16   | 8/4/1978 5:04    | 31.8              | 1080       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/12/1978 0:40   | 8/14/1978 4:53   | 52.21             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/19/1978 0:22   | 8/21/1978 2:36   | 50.23             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/25/1978 23:49  | 8/28/1978 1:29   | 49.66             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/2/1978 0:21    | 9/5/1978 6:37    | 78.26             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/16/1978 0:34   | 9/18/1978 3:45   | 51.18             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/22/1978 23:49  | 9/26/1978 6:14   | 78.41             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/30/1978 1:12   | 10/2/1978 12:23  | 59.18             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 10/3/1978 23:17  | 10/4/1978 11:24  | 12.11             | 1400       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 10/14/1978 0:34  | 10/16/1978 10:34 | 58                | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 11/4/1978 0:03   | 11/7/1978 3:07   | 75.06             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 11/11/1978 10:30 | 12/26/1978 1:21  | 1094.85           | 1999       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/9/1979 16:14   | 1/11/1979 17:05  | 48.85             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/12/1979 15:26  | 1/14/1979 0:44   | 33.3              | 1040       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/21/1979 1:04   | 1/22/1979 2:12   | 25.13             | 1040       |             |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event    | Duration in hours | Cause Code | Description |
|-----------|--------|--------------|-----|-----|------------|-----------------|-----------------|-------------------|------------|-------------|
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/25/1979 23:23 | 1/28/1979 19:55 | 68.53             | 1040       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/22/1979 22:44 | 2/26/1979 3:06  | 76.36             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/2/1979 0:33   | 3/4/1979 5:28   | 52.91             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/19/1979 22:23 | 3/22/1979 6:07  | 55.73             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/31/1979 23:31 | 4/1/1979 5:47   | 6.26              | 4640       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/4/1979 9:28   | 5/6/1979 23:26  | 61.96             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/18/1979 23:07 | 6/7/1979 8:38   | 465.51            | 8560       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 6/14/1979 20:57 | 6/15/1979 3:35  | 6.63              | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 6/23/1979 16:27 | 6/26/1979 4:18  | 59.85             | 8560       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 7/6/1979 19:46  | 7/8/1979 23:06  | 51.33             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 7/20/1979 22:16 | 7/23/1979 6:26  | 56.16             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 7/31/1979 0:47  | 8/5/1979 13:29  | 132.7             | 1999       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/22/1979 23:07 | 8/23/1979 13:23 | 14.26             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 9/1/1979 5:15   | 9/1/1979 6:02   | 0.78              | 4301       |             |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 9/1/1979 7:06   | 9/1/1979 8:29   | 1.38              | 4301       |             |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 9/1/1979 13:40  | 12/15/1979 3:35 | 2533.91           | 1999       |             |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 12/19/1979 3:16 | 12/19/1979 3:44 | 0.46              | 9720       |             |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 12/31/1979 0:15 | 12/31/1979 6:15 | 6                 | 4301       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/6/1980 7:49   | 1/9/1980 14:29  | 78.66             | 1005       |             |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description |
|-----------|--------|--------------|-----|-----|------------|----------------|------------------|-------------------|------------|-------------|
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/26/1980      | 0:30 1/28/1980   | 2:09              | 49.65      | 4269        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/11/1980      | 2:28 2/11/1980   | 3:38              | 1.16       | 440         |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/15/1980      | 0:35 2/19/1980   | 19:12             | 114.61     | 1060        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/8/1980       | 2:45 3/8/1980    | 3:18              | 0.55       | 9900        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/29/1980      | 0:34 3/31/1980   | 8:35              | 56.01      | 1060        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 4/18/1980      | 4:06 4/22/1980   | 6:35              | 98.48      | 1060        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/1/1980       | 9:34 5/5/1980    | 8:30              | 94.93      | 1040        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/6/1980       | 15:35 5/13/1980  | 19:39             | 172.06     | 1000        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/16/1980      | 17:25 5/19/1980  | 9:06              | 63.88      | 1000        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 6/24/1980      | 12:49 6/26/1980  | 7:40              | 42.85      | 1060        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 7/19/1980      | 0:01 7/19/1980   | 6:34              | 6.55       | 1400        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 7/19/1980      | 13:15 7/19/1980  | 16:35             | 3.33       | 3440        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/7/1980       | 22:51 8/8/1980   | 6:04              | 7.21       | 1400        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/9/1980       | 18:59 8/15/1980  | 6:28              | 131.48     | 1040        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/15/1980      | 22:39 8/17/1980  | 22:15             | 47.6       | 1060        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/13/1980      | 3:07 9/15/1980   | 4:11              | 49.06      | 1060        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/20/1980      | 0:48 9/22/1980   | 4:36              | 51.8       | 1060        |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 10/17/1980     | 23:24 10/17/1980 | 23:59             | 0.58       | 9999        |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 10/18/1980     | 5:14 11/16/1980  | 23:29             | 714.25     | 1999        |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|-------------|
| 521       | 168    | Oak Creek #6 |     |     | U1         | 11/23/1980 10:25 | 11/24/1980 21:27 | 35.03             | 3440       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 12/5/1980 22:22  | 12/8/1980 1:07   | 50.75             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/2/1981 8:19    | 1/2/1981 13:06   | 4.78              | 3440       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/16/1981 23:38  | 1/19/1981 6:05   | 54.45             | 8560       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/6/1981 23:59   | 2/10/1981 11:38  | 83.65             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 2/20/1981 23:50  | 2/22/1981 17:15  | 41.41             | 3110       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/22/1981 17:15  | 2/23/1981 19:49  | 26.56             | 4500       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/24/1981 6:00   | 3/2/1981 3:52    | 141.86            | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/3/1981 23:12   | 3/5/1981 8:44    | 33.53             | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/6/1981 22:22   | 3/7/1981 6:35    | 8.21              | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 4/2/1981 12:17   | 4/16/1981 22:09  | 345.86            | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/2/1981 23:35   | 5/3/1981 10:02   | 10.45             | 8560       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/9/1981 1:59    | 5/11/1981 7:05   | 53.1              | 1060       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/19/1981 19:40  | 5/21/1981 23:14  | 51.56             | 9720       |             |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 5/24/1981 0:02   | 6/6/1981 21:27   | 333.41            | 840        |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 6/9/1981 9:34    | 6/10/1981 8:05   | 22.51             | 3440       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 6/11/1981 23:48  | 6/12/1981 8:38   | 8.83              | 8560       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 6/27/1981 0:27   | 6/29/1981 6:21   | 53.9              | 1040       |             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 7/28/1981 23:33  | 8/2/1981 0:36    | 97.05             | 1060       |             |



| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description   |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|---|
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/17/1981 22:08  | 8/21/1981 11:46  | 85.63             | 1040       |   |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/27/1981 9:35   | 8/27/1981 19:33  | 9.96              | 1060       |   |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 9/5/1981 0:45    | 9/8/1981 5:31    | 76.76             | 3261       |   |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/25/1981 21:51  | 9/29/1981 22:15  | 96.4              | 1040       |   |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 10/5/1981 10:49  | 10/11/1981 10:33 | 143.73            | 1040       |   |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 10/11/1981 10:40 | 10/17/1981 18:33 | 151.88            | 4520       |   |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 10/23/1981 14:18 | 10/26/1981 5:44  | 63.43             | 1040       |   |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 11/6/1981 22:05  | 11/6/1981 23:07  | 1.03              | 9999       |   |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 11/7/1981 4:44   | 12/20/1981 21:06 | 1072.36           | 1999       |   |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 12/21/1981 3:00  | 12/24/1981 12:58 | 81.96             | 1040       |   |
| 521       | 168    | Oak Creek #6 |     |     | U3         | 1/9/1982 5:57    | 1/9/1982 21:30   | 15.55             | 4261       | Turbine Control Valve Cam Replacement                               |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/21/1982 10:40  | 1/26/1982 13:34  | 122.9             | 8560       | Water Entered Precipitator Causing Ash Removal Problems             |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/28/1982 17:15  | 1/29/1982 20:15  | 27                | 1850       | Replace Boiler Water because of High Silica                         |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/31/1982 1:21   | 2/1/1982 7:20    | 29.98             | 1060       | Repair Reheater Leak in 1 Cell                                      |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/7/1982 19:22   | 2/11/1982 22:06  | 98.73             | 1020       | Convection Superheater, Tube Rupture #1 and #4 cells - Repair Leaks |
| 521       | 168    | Oak Creek #6 |     |     | U2         | 2/13/1982 1:46   | 2/14/1982 23:33  | 45.78             | 240        | Clean Fire Coal out of 61 & 62 Pulv Fuel Bins                       |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/4/1982 13:47   | 3/8/1982 5:41    | 87.9              | 360        | Repair Pulverized Fuel Leak at Burners                              |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/9/1982 21:55   | 3/10/1982 6:34   | 8.64              | 1060       | Reheat Leak North Side Elev 45 Repair From Outside                  |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/20/1982 22:44  | 3/21/1982 6:13   | 7.48              | 1070       | Repair Reheater Leak  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description   |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|---|
| 521       | 168    | Oak Creek #6 |     |     | U2         | 3/27/1982 21:42  | 3/28/1982 20:40  | 22.96             | 1130       | Remove Slag From Furnace Bottom   |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 4/4/1982 1:29    | 4/4/1982 9:24    | 7.91              | 8560       | Precip Grounds  |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 4/4/1982 20:52   | 4/7/1982 15:15   | 66.38             | 1160       | Reheat Tube Leak  |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 4/11/1982 2:08   | 4/15/1982 14:00  | 107.86            | 1030       | Boiler, Repair Water Tube Leak  |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/14/1982 22:24  | 5/15/1982 12:09  | 13.75             | 250        | Repair Damage from 62 Pulverized Feeder Fire                                    |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/20/1982 19:42  | 5/23/1982 3:32   | 55.83             | 1060       | Boiler and Precips, Reheat Leak One and Four Cells also Insp Precip for Grounds |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/25/1982 22:24  | 5/26/1982 6:20   | 7.93              | 8560       | Precipitator, Remove Broken Wire  |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 6/10/1982 23:24  | 6/17/1982 7:49   | 152.41            | 1060       | Boiler, Repair Reheat Leaks   |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 6/20/1982 20:50  | 6/24/1982 6:20   | 81.5              | 1040       | Boiler, Intermediate Superheat Tube on Number One Division Wall                 |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 7/25/1982 0:48   | 7/28/1982 9:14   | 80.43             | 540        | Repair Reheat Tube Leak North East Corner Elev 67                               |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/15/1982 2:42   | 9/20/1982 14:02  | 131.33            | 1060       | Boiler, Repair Reheat Leak  |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 10/1/1982 18:48  | 10/1/1982 19:39  | 0.85              | 4460       | Generator, Test Turbine Over Speed Trips  |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 10/2/1982 0:26   | 11/25/1982 6:26  | 1302              | 1800       | Boiler, Annual Outage   |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 11/25/1982 15:16 | 11/26/1982 20:30 | 29.23             | 1060       | Reheat Leak North Wall Superheat Leak #1 Div Wall                               |
| 521       | 168    | Oak Creek #6 |     |     | U2         | 11/28/1982 16:21 | 11/30/1982 4:35  | 36.23             | 1040       | Boiler, Superheat Tube Leak #1 Division Wall - Took Unit Out for Repairs        |
| 521       | 168    | Oak Creek #6 |     |     | U2         | 12/3/1982 23:53  | 12/4/1982 18:06  | 18.21             | 8560       | Precip Fields Out, Clear Grounds  |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 12/17/1982 22:54 | 12/18/1982 19:32 | 20.63             | 4613       | H2 Leaks on Hi-Lo Speed Generator   |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 12/24/1982 2:29  | 12/24/1982 21:15 | 18.76             | 4619       | Repair H2 Leakage on High and Low Speed Generators                              |
| 521       | 168    | Oak Creek #6 |     |     | U2         | 12/31/1982 0:41  | 12/31/1982 8:24  | 7.71              | 8560       | Clear Precip Grounds  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |      |  |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|------|--|
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/17/1983      | 12:14        | 2/18/1983         | 4:24       | 16.16       | 8430 | Grounds in Precipitator - Cleared Grounds    |
| 521       | 168    | Oak Creek #6 |     |     | U3         | 3/12/1983      | 0:08         | 3/18/1983         | 20:15      | 164.11      | 1040 | Reheat and Superheat Leaks                   |
| 521       | 168    | Oak Creek #6 |     |     | U2         | 4/20/1983      | 22:51        | 4/25/1983         | 3:55       | 101.06      | 1070 | Repair Boiler Reheat Leak and Superheat Leak |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 8/17/1983      | 3:58         | 8/17/1983         | 6:30       | 2.53        | 3611 | Line 862 OCB BO Oil Leak After Lighting      |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 8/17/1983      | 6:31         | 8/25/1983         | 3:01       | 188.5       | 1060 | Reheater Leaks                               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/6/1983       | 19:49        | 9/10/1983         | 8:39       | 84.43       | 1020 | Convection Waterwall Tube Leak               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/20/1983      | 2:23         | 9/25/1983         | 14:36      | 132.21      | 4740 | Generator Lockout                            |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/25/1983      | 15:40        | 9/27/1983         | 11:30      | 43.83       | 1140 | Radiant Superheater Tube Failure             |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 10/13/1983     | 13:41        | 10/30/1983        | 12:55      | 407.23      | 1810 | Planned Outage for Inspections               |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/4/1984       | 3:38         | 1/9/1984          | 22:44      | 139.1       | 1060 | Reheat Leak                                  |
| 521       | 168    | Oak Creek #6 |     |     | U2         | 1/12/1984      | 23:40        | 1/15/1984         | 15:09      | 63.48       | 1060 | Reheat Leaks                                 |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/25/1984      | 9:46         | 1/30/1984         | 11:56      | 122.16      | 1080 | Economizer                                   |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/14/1984      | 15:30        | 2/19/1984         | 11:42      | 116.2       | 1020 | Convection Leak                              |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/22/1984      | 21:49        | 2/23/1984         | 6:00       | 8.18        | 8560 | Electrostatic Precip Problems                |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/23/1984      | 6:00         | 2/23/1984         | 8:00       | 2           | 4309 | Other Turb Inst & Cont Problems              |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/30/1984      | 20:30        | 4/6/1984          | 6:05       | 153.58      | 1060 | Repair Reheat Leaks                          |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 4/24/1984      | 23:38        | 4/25/1984         | 1:10       | 1.53        | 4460 | Turbine Overspeed Trip Test                  |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 4/28/1984      | 2:32         | 7/29/1984         | 16:54      | 2222.36     | 1800 | Annual Outage                                |
| 521       | 168    | Oak Creek #6 | *   |     | U3         | 8/1/1984       | 18:46        | 8/3/1984          | 16:00      | 45.23       | 4613 | Hydrogen Seal                                |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event     | End of Event       | Duration in hours | Cause Code | Description  |
|-----------|--------|--------------|-----|-----|------------|--------------------|--------------------|-------------------|------------|--|
| 521       | 168    | Oak Creek #6 | *   |     | U3         | 8/3/1984 16:01     | 8/4/1984 14:25     | 22.4              | 1060       | Reheat Leak  |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 8/11/1984 5:05     | 8/11/1984 22:41    | 17.6              | 1080       | Economizer   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 8/20/1984 4:58     | 8/24/1984 15:36    | 106.63            | 1080       | Economizer Tube Leak                                 |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 8/27/1984 5:59     | 8/30/1984 3:57     | 69.96             | 1080       | Economizer Leak                                      |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/9/1984 9:24      | 9/9/1984 10:46     | 1.36              | 1470       | ID Fan Motors & Drives                               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/9/1984 10:46     | 9/9/1984 19:05     | 8.31              | 4609       | Other Excitor Problems                               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/17/1984 2:32     | 9/18/1984 5:50     | 27.3              | 1080       | Econ Leak  |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 11/21/1984 19:17   | 11/25/1984 22:18   | 99.01             | 1005       | Generating Tube                                      |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 11/28/1984 13:42   | 11/30/1984 9:46    | 44.06             | 1005       | Generating Tube Rupture in Boiler Convection Section |
| 521       | 168    | Oak Creek #6 |     |     | U2         | 1/18/1985 21:49    | 1/19/1985 9:20     | 11.51             | 1060       | First Reheat Tube Leaks                              |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 1/22/1985 21:00    | 1/29/1985 12:00    | 159               | 1060       | Maintenance Outage                                   |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 1/29/1985 12:00    | 1/31/1985 24:00:00 | 60                | 880        | Flyash Handling                                      |
| 521       | 168    | Oak Creek #6 |     |     | SF         | 1/31/1985 24:00:00 | 2/1/1985 13:30     | 13.5              | 4283       | Lube Oil Sys Vlvs & Piping                           |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 2/26/1985 19:02    | 3/2/1985 23:00     | 99.96             | 1005       | Generating Tube                                      |
| 521       | 168    | Oak Creek #6 |     |     | SF         | 3/2/1985 23:00     | 3/4/1985 9:58      | 34.96             | 920        | Other Slag Removal Problems                          |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 3/27/1985 10:55    | 4/1/1985 1:00      | 110.08            | 1060       | Reheater Leaks                                       |
| 521       | 168    | Oak Creek #6 |     |     | SF         | 4/1/1985 1:00      | 4/1/1985 7:41      | 6.68              | 4609       | Other Excitor Problems                               |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 4/13/1985 23:04    | 4/29/1985 0:35     | 361.51            | 4520       | Gen Winding Bshngs & Terminals                       |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 5/10/1985 17:05    | 5/15/1985 3:24     | 106.31            | 1005       | Generating Tube                                      |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event        | Duration in hours | Cause Code | Description                     |
|-----------|--------|--------------|-----|-----|------------|------------------|---------------------|-------------------|------------|---------------------------------|
| 521       | 168    | Oak Creek #6 |     |     | MO         | 5/16/1985 22:29  | 5/18/1985 16:42     | 42.21             | 1020       | Convection Pass Wall            |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 5/31/1985 20:42  | 6/1/1985 4:50       | 8.13              | 410        | Other Burner Problems           |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 6/21/1985 22:35  | 6/26/1985 8:05      | 105.5             | 1070       | Second Reheater                 |
| 521       | 168    | Oak Creek #6 |     |     | SF         | 6/26/1985 8:05   | 6/27/1985 0:58      | 16.88             | 530        | Other Main Steam Sys Problems   |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 7/5/1985 21:32   | 7/6/1985 15:45      | 18.21             | 800        | Repair Leaking Drum Safety Vlvs |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/2/1985 13:27   | 9/3/1985 3:04       | 13.61             | 9910       | Maintenance Error               |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 9/14/1985 22:57  | 9/21/1985 4:24      | 149.45            | 1070       | Second Reheater                 |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 9/22/1985 2:01   | 9/23/1985 24:00:00  | 45.98             | 1005       | Generating Tube                 |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 10/7/1985 11:59  | 10/12/1985 16:04    | 124.08            | 1050       | Second Superheater              |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 10/18/1985 22:19 | 10/23/1985 10:31    | 108.2             | 1005       | Generating Tubes                |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 11/18/1985 20:00 | 11/20/1985 8:31     | 36.51             | 1080       | Economizer Tube Failure         |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 11/20/1985 8:31  | 11/20/1985 14:43    | 6.2               | 9900       | Operator Error                  |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 11/27/1985 23:31 | 11/30/1985 10:24    | 58.88             | 1005       | Generating Tube Leak            |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 12/6/1985 9:57   | 12/31/1985 24:00:00 | 614.05            | 1800       | Annual Outage                   |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 1/1/1986 0:01    | 3/17/1986 6:16      | 1806.25           | 1800       | Annual Outage. Started 12-6-85  |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 3/30/1986 8:14   | 4/4/1986 11:26      | 123.2             | 9910       | Maintenance Error               |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 4/11/1986 19:35  | 4/14/1986 6:25      | 58.83             | 4262       | Intercept Valve                 |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/5/1986 3:34    | 6/5/1986 4:34       | 1                 | 4292       | Hydraulic System Failures       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/11/1986 6:45   | 6/15/1986 2:55      | 92.16             | 1080       | Economizer Leak                 |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event        | Duration in hours | Cause Code | Description                      |
|-----------|--------|--------------|-----|-----|------------|------------------|---------------------|-------------------|------------|----------------------------------|
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/15/1986 2:55   | 6/20/1986 16:00     | 133.08            | 1005       | Water Wall Leak                  |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 8/1/1986 22:45   | 8/4/1986 7:56       | 57.18             | 1590       | Stack Inspection                 |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 8/17/1986 8:18   | 8/17/1986 16:25     | 8.11              | 4600       | Exciter Motor - L.S.             |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 8/20/1986 23:05  | 8/31/1986 4:37      | 245.53            | 1005       | Generating Tube                  |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/30/1986 22:49  | 10/2/1986 5:42      | 30.88             | 1080       | Economizer Leak                  |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 10/25/1986 20:46 | 10/26/1986 4:43     | 7.95              | 220        | Pulv Sys-Cyclone Spectator       |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 11/8/1986 7:38   | 11/8/1986 19:40     | 12.03             | 220        | Pulverizer System                |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 11/13/1986 3:51  | 11/16/1986 7:55     | 76.06             | 570        | Reheat Steam Problem             |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 12/24/1986 23:38 | 12/31/1986 24:00:00 | 168.36            | 1800       | Annual Outage                    |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 1/1/1987 0:01    | 2/7/1987 10:23      | 898.36            | 1800       | Annual Outage. Started 12-24-86  |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 2/14/1987 21:13  | 2/14/1987 21:58     | 0.75              | 4460       | Resv Shutdown - Turb Ovrspd Test |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 2/20/1987 1:44   | 2/23/1987 6:15      | 76.51             | 4293       | Control Oil Leak at Stop VV      |
| 521       | 168    | Oak Creek #6 |     |     | U2         | 2/25/1987 0:01   | 3/2/1987 20:56      | 140.91            | 1090       | Steam Drum Feeder Tube           |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 3/8/1987 3:41    | 3/8/1987 8:57       | 5.26              | 4460       | Test HS Overspeed Stop           |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 4/14/1987 18:42  | 4/18/1987 15:54     | 93.2              | 1040       | First Superheater                |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/11/1987 7:14   | 5/12/1987 8:40      | 25.43             | 1080       | Econ Leak                        |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 6/10/1987 15:45  | 6/29/1987 14:16     | 454.51            | 880        | Flyash Handling                  |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 7/13/1987 23:57  | 7/16/1987 0:43      | 48.76             | 1005       | Generating Tubes                 |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 7/27/1987 23:20  | 7/29/1987 3:43      | 28.38             | 1090       | Drum Feeder Tube                 |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description |                               |
|-----------|--------|--------------|-----|-----|------------|----------------|------------------|-------------------|------------|-------------|-------------------------------|
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 7/29/1987      | 18:34 7/31/1987  | 11:07             | 40.55      | 1090        | Drum Feeder Tube              |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 8/10/1987      | 19:54 8/12/1987  | 8:07              | 36.21      | 400         | Burner Windbox Fires          |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 9/19/1987      | 22:50 8/23/1987  | 3:00              | 76.16      | 410         | Other Burner Problems         |
| 521       | 168    | Oak Creek #6 |     |     | U1         | 10/26/1987     | 17:18 10/30/1987 | 23:00             | 101.7      | 1005        | Generating Tube               |
| 521       | 168    | Oak Creek #6 |     |     | U2         | 10/30/1987     | 23:01 11/2/1987  | 10:10             | 59.15      | 880         | Flyash Silo                   |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 1/12/1988      | 22:00 1/15/1988  | 12:00             | 62         | 1120        | Ash Fouling Appeture          |
| 521       | 168    | Oak Creek #6 |     |     | U2         | 2/23/1988      | 14:25 2/25/1988  | 3:33              | 37.13      | 1005        | Water Tube Leak               |
| 521       | 168    | Oak Creek #6 |     |     | U2         | 3/20/1988      | 20:16 3/24/1988  | 12:41             | 88.41      | 1005        | Generating Tube Failure       |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 4/5/1988       | 7:10 4/7/1988    | 11:25             | 52.25      | 1005        | Generating Tube Failure       |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 4/7/1988       | 11:25 4/8/1988   | 0:29              | 13.06      | 4299        | Other Hydraulic Sys Problems  |
| 521       | 168    | Oak Creek #6 | *   |     | U3         | 4/19/1988      | 17:18 4/22/1988  | 16:00             | 70.69      | 1080        | Economizer Tube Leak          |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 5/12/1988      | 10:51 7/8/1988   | 22:32             | 1379.68    | 4400        | Annual Outage                 |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 7/17/1988      | 1:40 7/7/1988    | 2:31              | 0.85       | 4460        | Overspeed Trip Test           |
| 521       | 168    | Oak Creek #6 |     |     | PO         | 7/30/1988      | 0:08 7/30/1988   | 3:02              | 2.9        | 4301        | Turb Governing System         |
| 521       | 168    | Oak Creek #6 |     |     | MO         | 8/11/1988      | 2:03 8/14/1988   | 12:40             | 82.61      | 4260        | Remove Steam Strainer Screens |
| 521       | 168    | Oak Creek #6 |     |     | SF         | 8/14/1988      | 12:40 8/16/1988  | 11:30             | 46.83      | 1005        | WTR Tube Leak                 |
| 521       | 168    | Oak Creek #6 |     |     | SF         | 8/16/1988      | 11:30 8/17/1988  | 4:27              | 16.95      | 4301        | Turb Governor System          |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 10/15/1988     | 4:44 10/15/1988  | 14:30             | 9.76       | 775         | Economizer Piping             |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 10/15/1988     | 14:30 10/16/1988 | 19:10             | 28.66      | 4611        | Hydrogen Coolers              |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                   |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|-------------------------------|
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 10/18/1988 4:53  | 10/20/1988 1:48  | 44.91             | 1090       | Drum Feeder Tube              |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 10/24/1988 5:05  | 10/28/1988 2:11  | 93.1              | 1090       | Drum Feeder Tube              |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 11/26/1988 18:14 | 12/1/1988 13:35  | 139.35            | 1050       | Second Super Htr Tube Failure |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 12/9/1988 23:39  | 12/11/1988 23:50 | 48.18             | 400        | Burner Windbox Fires          |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 2/12/1989 18:17  | 2/13/1989 10:41  | 16.4              | 3441       | HI Press Htr Drain Valving    |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 2/17/1989 19:58  | 2/20/1989 6:15   | 58.28             | 1005       | Generating Tube Failure       |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 2/20/1989 6:15   | 2/20/1989 12:45  | 6.5               | 799        | Other Piping Sys Problems     |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 2/23/1989 16:34  | 2/23/1989 21:30  | 4.93              | 4301       | Turb Valve Control            |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 2/23/1989 21:30  | 2/24/1989 7:30   | 10                | 1005       | Generating Tube Failure       |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 2/24/1989 7:30   | 3/3/1989 12:13   | 172.71            | 1800       | Planned Outage                |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 3/17/1989 21:54  | 3/19/1989 16:13  | 42.31             | 1070       | Second Reheater               |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 3/31/1989 9:10   | 4/3/1989 8:08    | 70.96             | 1005       | Generating Tube               |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 5/5/1989 17:29   | 5/7/1989 8:42    | 39.21             | 1510       | Flue Gas Duct                 |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 5/7/1989 13:34   | 5/10/1989 9:57   | 68.38             | 1040       | Primary Superheater           |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 5/10/1989 9:57   | 5/13/1989 20:40  | 82.71             | 1040       | Primary Superheater           |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 6/4/1989 19:34   | 6/8/1989 10:06   | 86.53             | 1005       | Generating Tube Failure       |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 6/26/1989 8:26   | 6/29/1989 14:17  | 77.85             | 1005       | Generating Tube Failure       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/5/1989 3:55    | 7/5/1989 4:43    | 0.8               | 4302       | Turbine Throttle Trip         |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/6/1989 13:11   | 9/6/1989 16:43   | 3.53              | 9910       | Maintenance Error             |



| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event        | Duration in hours | Cause Code | Description                          |
|-----------|--------|--------------|-----|-----|------------|-----------------|---------------------|-------------------|------------|--------------------------------------|
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 9/6/1989 16:43  | 9/6/1989 19:12      | 2.48              | 3149       | Loss of Vacuum                       |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 9/8/1989 21:34  | 9/11/1989 7:23      | 57.81             | 1050       | Second Superheater                   |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 9/13/1989 19:37 | 12/31/1989 24:00:00 | 2644.38           | 1800       | Planned Maintenance Outage           |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 1/1/1990 0:01   | 4/9/1990 7:40       | 2359.64           | 1800       | Planned Maint Outage Started 9-13-89 |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 4/13/1990 2:16  | 4/13/1990 3:01      | 0.75              | 4309       | Turbine Control                      |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 4/25/1990 1:26  | 4/25/1990 2:26      | 1                 | 1710       | Combustion Controls                  |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 4/25/1990 2:26  | 4/25/1990 5:40      | 3.23              | 4810       | Generator Output Breaker             |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 4/25/1990 6:00  | 4/25/1990 8:00      | 2                 | 1700       | Feedwater Controls                   |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 4/25/1990 8:00  | 4/25/1990 13:19     | 5.31              | 4810       | Generator Output Breaker             |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 4/27/1990 21:08 | 4/28/1990 2:30      | 5.36              | 1480       | #61 & #62 ID Fan Tripped             |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 4/28/1990 2:30  | 4/28/1990 6:00      | 3.5               | 1480       | Other ID Ran Problems                |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 4/30/1990 23:49 | 5/4/1990 12:22      | 84.55             | 8600       | SO3 Injection System                 |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/7/1990 16:07  | 5/7/1990 16:59      | 0.86              | 1710       | Combustion Control Drop              |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 5/8/1990 23:26  | 5/9/1990 11:05      | 11.65             | 3190       | Repair LP Hood Rupture Discs         |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/15/1990 0:59  | 5/15/1990 3:32      | 2.55              | 4261       | Turb Control Valves                  |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 5/15/1990 3:43  | 5/15/1990 7:04      | 3.35              | 1710       | Combustion Controls                  |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/18/1990 15:35 | 5/18/1990 16:44     | 1.15              | 9910       | Maintenance Error                    |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/19/1990 6:35  | 5/19/1990 8:11      | 1.6               | 1710       | Combustion Controls                  |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 5/19/1990 11:48 | 5/21/1990 10:42     | 46.9              | 1040       | First Superheater                    |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event    | Duration in hours | Cause Code | Description                  |
|-----------|--------|--------------|-----|-----|------------|-----------------|-----------------|-------------------|------------|------------------------------|
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/23/1990 19:54 | 5/23/1990 20:52 | 0.96              | 1710       | Combustion Controls          |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 5/23/1990 20:52 | 5/23/1990 21:47 | 0.91              | 9900       | Operator Error               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/24/1990 13:50 | 5/24/1990 17:23 | 3.55              | 1710       | Combustion Controls          |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/1/1990 23:56  | 6/2/1990 2:15   | 2.31              | 1710       | Combustion Controls          |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/5/1990 21:22  | 6/10/1990 6:00  | 104.63            | 1050       | Superheater Second           |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/10/1990 20:57 | 6/10/1990 22:12 | 1.25              | 1480       | #62 & #61 Fans Tripped       |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 6/16/1990 2:24  | 6/25/1990 7:00  | 220.6             | 1340       | Boiler Tube Modifications    |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 6/25/1990 7:00  | 6/25/1990 18:23 | 11.38             | 1710       | Combustion Controls          |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/30/1990 0:18  | 6/30/1990 2:20  | 2.03              | 1710       | Combustion Controls          |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/3/1990 18:30  | 7/3/1990 19:25  | 0.91              | 1470       | #62 ID Fan                   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/3/1990 19:53  | 7/3/1990 20:18  | 0.41              | 1710       | Combustion Controls          |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/3/1990 22:54  | 7/3/1990 23:47  | 0.88              | 1710       | Combustion Controls          |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 7/3/1990 23:47  | 7/4/1990 3:40   | 3.88              | 3430       | Start-Up Failure             |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/5/1990 2:45   | 7/5/1990 3:18   | 0.55              | 1700       | Feedwater Controls           |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/5/1990 14:04  | 7/6/1990 7:30   | 17.43             | 4299       | Other Hydraulic Sys Problems |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 8/15/1990 3:32  | 8/15/1990 4:21  | 0.81              | 1710       | Combustion Controls          |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 8/16/1990 6:35  | 8/16/1990 8:27  | 1.86              | 1470       | 62 ID Fan Trip               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 8/26/1990 12:45 | 8/26/1990 14:11 | 1.43              | 1470       | 61 ID Fan Trip               |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 8/26/1990 14:11 | 8/26/1990 15:26 | 1.25              | 9900       | Start-Up Failure             |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event    | Duration in hours | Cause Code | Description                     |
|-----------|--------|--------------|-----|-----|------------|-----------------|-----------------|-------------------|------------|---------------------------------|
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 9/3/1990 12:00  | 9/4/1990 8:41   | 20.68             | 3131       | Air Ejector Piping & Vlvs       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/4/1990 15:43  | 9/4/1990 16:43  | 1                 | 1700       | Feedwater Controls              |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 9/4/1990 16:43  | 9/4/1990 20:52  | 4.15              | 380        | Light-Off Systems               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/7/1990 3:50   | 9/7/1990 4:36   | 0.76              | 1710       | Combustion Controls             |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/7/1990 15:25  | 9/7/1990 15:56  | 0.51              | 3250       | Circ Wtr Stem Instrumnts & Ctrl |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/7/1990 21:22  | 9/7/1990 21:49  | 0.45              | 1710       | Combustion Controls             |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/8/1990 2:49   | 9/8/1990 4:26   | 1.61              | 1710       | Combustion Controls             |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/10/1990 11:39 | 9/10/1990 12:19 | 0.66              | 3849       | Other Service Air Problems      |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/10/1990 22:54 | 9/10/1990 23:20 | 0.43              | 1710       | Combustion Controls             |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/14/1990 4:04  | 9/14/1990 4:47  | 0.71              | 1475       | 62 ID Fan Controls              |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/22/1990 21:54 | 9/22/1990 23:00 | 1.1               | 1480       | Other ID Fan Problems           |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 9/22/1990 23:00 | 9/23/1990 6:25  | 7.41              | 4309       | Other Turb Instru & Ctrl Problm |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/1/1990 19:51 | 10/1/1990 22:45 | 2.9               | 1475       | ID Fan Controls                 |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 10/1/1990 22:45 | 10/4/1990 5:06  | 54.35             | 4410       | LP Turbine Turning Gear & Mtr   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/4/1990 6:32  | 10/4/1990 7:31  | 0.98              | 9900       | Operator Error                  |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/4/1990 18:53 | 10/4/1990 20:21 | 1.46              | 1475       | 61 ID Fan Controls              |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/4/1990 22:58 | 10/4/1990 23:34 | 0.6               | 1475       | ID Fan Controls                 |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/5/1990 6:15  | 10/5/1990 7:56  | 1.68              | 1475       | ID Fan Controls                 |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/6/1990 8:24  | 10/6/1990 9:12  | 0.8               | 338        | Pulverizer Control Systems      |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                     |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|---------------------------------|
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/6/1990 10:53  | 10/6/1990 12:06  | 1.21              | 4309       | Control Valve Problem           |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/6/1990 14:55  | 10/6/1990 15:52  | 0.95              | 1475       | ID Fan Controls                 |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/8/1990 6:32   | 10/8/1990 7:04   | 0.53              | 1475       | ID Fan Controls                 |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/8/1990 11:25  | 10/8/1990 12:00  | 0.58              | 1475       | ID Fan Controls                 |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/13/1990 7:35  | 10/13/1990 8:09  | 0.56              | 1710       | Combustion/Steam Condition Ctrl |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/19/1990 20:53 | 10/19/1990 21:37 | 0.73              | 1710       | Combustion Controls             |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/14/1990 15:58 | 12/14/1990 19:19 | 3.35              | 9910       | Maintenance Error               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/14/1990 21:49 | 12/17/1990 12:00 | 62.18             | 1040       | First Superheater               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/17/1990 12:00 | 12/18/1990 5:36  | 17.6              | 4611       | Hydrogen Coolers Head Leak      |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 12/26/1990 7:30  | 12/30/1990 20:45 | 109.25            | 4261       | Control Valve Repair            |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 1/19/1991 6:07   | 1/19/1991 8:26   | 2.31              | 1799       | Other Control Problems          |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 1/19/1991 8:42   | 1/19/1991 9:24   | 0.7               | 1799       | Other Control Problems          |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/22/1991 1:22   | 6/22/1991 4:26   | 3.06              | 9900       | Operator Error                  |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/22/1991 4:42   | 6/22/1991 8:30   | 3.8               | 4260       | Main Stop Valves                |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/23/1991 0:12   | 6/23/1991 1:04   | 0.86              | 1710       | Combustion/Steam Condition Ctrl |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 8/12/1991 5:20   | 8/12/1991 9:48   | 4.46              | 3411       | Feedwater Pump Drive Mtr        |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 8/12/1991 9:48   | 8/12/1991 22:20  | 12.53             | 4030       | Rotor Shaft                     |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 10/4/1991 16:08  | 11/9/1991 10:54  | 858.76            | 1800       | Planned Maintenance Outage      |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 11/9/1991 11:24  | 11/9/1991 12:29  | 1.08              | 3441       | Other Hp Fdwtr Htr Problems     |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event | Duration in hours | Cause Code | Description |                               |
|-----------|--------|--------------|-----|-----|------------|------------------|--------------|-------------------|------------|-------------|-------------------------------|
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/2/1991 11:25  | 12/5/1991    | 7:46              | 68.35      | 1005        | Generating Tube               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 1/5/1992 21:31   | 1/5/1992     | 22:30             | 0.98       | 3502        | Heater Level Control          |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 2/21/1992 1:34   | 2/21/1992    | 2:10              | 0.6        | 1710        | Combustion Controls           |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 4/9/1992 9:12    | 4/9/1992     | 10:15             | 1.04       | 3430        | Feedwater Regulating Valve    |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 4/20/1992 11:06  | 4/23/1992    | 7:51              | 68.75      | 1005        | Generating Tube               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/7/1992 6:21    | 5/11/1992    | 0:16              | 89.91      | 1005        | Generating Tube               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/16/1992 14:31  | 5/16/1992    | 15:40             | 1.15       | 1710        | Combustion Controls           |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/13/1992 6:58   | 6/13/1992    | 8:38              | 1.66       | 1750        | Burner Management System      |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/13/1992 18:31  | 6/14/1992    | 10:13             | 15.7       | 4740        | Emergency Gen Trip Device     |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/14/1992 16:06  | 6/14/1992    | 17:35             | 1.48       | 3502        | Htr Level Control             |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/18/1992 16:53  | 6/18/1992    | 21:51             | 4.96       | 3664        | 4160V Protective Devices      |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/19/1992 1:13   | 6/19/1992    | 2:06              | 0.88       | 1750        | Burner Management System      |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/28/1992 15:43  | 7/28/1992    | 17:10             | 1.45       | 1799        | Other Boiler Control Problems |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/29/1992 6:47   | 7/29/1992    | 10:30             | 3.71       | 1750        | Burner Management System      |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/5/1992 22:48   | 9/6/1992     | 0:40              | 1.86       | 4302        | Turbine Trip Devices          |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/6/1992 0:40    | 9/6/1992     | 0:56              | 0.26       | 1799        | Other Boiler Control Problems |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/8/1992 2:02    | 9/8/1992     | 2:25              | 0.38       | 1750        | Burner Management System      |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/31/1992 21:15 | 10/31/1992   | 22:12             | 0.95       | 1799        | Other Boiler Control Problems |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 11/13/1992 22:56 | 11/14/1992   | 4:38              | 5.7        | 280         | Pulverizer Fire               |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                    |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|--------------------------------|
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 11/14/1992 16:15 | 11/14/1992 17:20 | 1.08              | 1750       | Burner Management System       |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 11/24/1992 6:24  | 12/27/1992 3:07  | 812.71            | 1800       | Planned Maintenance Outage     |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/30/1992 19:42 | 12/30/1992 20:16 | 0.56              | 9270       | Wet Coal                       |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 1/6/1993 21:55   | 1/7/1993 4:09    | 6.23              | 8550       | Electrostatic Precip Foulng    |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 1/10/1993 15:45  | 1/10/1993 18:32  | 2.78              | 1750       | Burner Management System       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 2/24/1993 20:40  | 2/25/1993 13:54  | 17.23             | 4609       | Other Exciter Problems         |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 2/25/1993 14:15  | 2/25/1993 14:39  | 0.4               | 1710       | Combustion Controls            |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 3/28/1993 1:26   | 3/28/1993 3:23   | 1.95              | 1710       | Combustion Controls            |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 4/20/1993 14:45  | 4/20/1993 15:37  | 0.86              | 3230       | Circulating Water Vlvs         |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 5/16/1993 1:00   | 5/20/1993 21:52  | 116.86            | 4260       | Main Stop Valves               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/7/1993 13:02   | 7/7/1993 14:22   | 1.33              | 3659       | Other DC Power Problems        |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/7/1993 2:20    | 9/7/1993 2:51    | 0.51              | 3430       | Fdwtr Regulating Valve         |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/27/1993 11:47 | 12/27/1993 12:57 | 1.16              | 9910       | Elect. Maint. Error Caused MFT |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 1/30/1994 17:05  | 1/30/1994 17:24  | 0.31              | 1750       | Burner Management System       |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 4/26/1994 23:50  | 5/1/1994 16:48   | 112.96            | 1040       | First Superheater              |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/23/1994 12:49  | 5/23/1994 14:13  | 1.4               | 1799       | Other Control Problems         |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/23/1994 15:11  | 5/23/1994 15:37  | 0.43              | 1799       | Other Control Problems         |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/23/1994 17:33  | 5/23/1994 17:50  | 0.28              | 380        | Light Off System               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/23/1994 20:20  | 5/23/1994 20:46  | 0.43              | 380        | Light Off System               |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                   |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|-------------------------------|
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/24/1994 9:04   | 5/24/1994 10:14  | 1.16              | 9900       | Operator Error                |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/7/1994 0:15    | 7/7/1994 2:00    | 1.75              | 1400       | Forced Draft Fan              |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/7/1994 2:00    | 7/7/1994 16:50   | 14.83             | 4410       | Turning Gear and Motor        |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 8/18/1994 5:18   | 8/22/1994 0:01   | 90.71             | 4520       | Stator Windings               |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 8/22/1994 0:01   | 10/10/1994 8:14  | 1184.21           | 4520       | Planned Annual Outage         |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/10/1994 21:48 | 10/11/1994 17:02 | 19.23             | 3832       | Aux Steam Valves              |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/17/1994 23:05 | 10/18/1994 5:53  | 6.8               | 1710       | Combustion Controls           |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 10/21/1994 4:25  | 10/25/1994 2:09  | 93.73             | 4260       | Main Stop Valves              |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 11/1/1994 15:46  | 11/1/1994 16:39  | 0.88              | 3412       | Feedwater Pump Drive Turbine  |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 11/3/1994 23:38  | 11/4/1994 0:53   | 1.25              | 340        | Other Pulverizer Problems     |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 3/1/1995 3:42    | 3/1/1995 7:31    | 3.81              | 3271       | Intake Grating Fouling        |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 3/7/1995 5:24    | 3/12/1995 5:51   | 120.45            | 4613       | L.S. Generator Hydrogen Seals |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 3/12/1995 5:51   | 3/12/1995 21:45  | 15.9              | 520        | Main Steam Drain Line Leak    |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 4/13/1995 18:15  | 4/16/1995 11:00  | 64.75             | 1080       | Economizer Leak               |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 4/19/1995 12:36  | 4/22/1995 0:02   | 59.43             | 1005       | Steam Generating Tube         |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 4/23/1995 0:08   | 4/23/1995 1:30   | 1.36              | 9900       | Operator Error                |
| 521       | 168    | Oak Creek #6 | *   |     | SF         | 4/23/1995 1:30   | 4/23/1995 5:45   | 4.25              | 3131       | Air Ejector Piping & Vlvs     |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/8/1995 9:59    | 9/8/1995 10:29   | 0.5               | 3230       | Circulating Water Vlvs        |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/8/1995 14:48   | 9/8/1995 15:29   | 0.68              | 3412       | Feedwater Pump Drive Turbine  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description |                       |
|-----------|--------|--------------|-----|-----|------------|----------------|------------------|-------------------|------------|-------------|-----------------------|
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/11/1995     | 23:24 10/11/1995 | 23:52             | 0.46       | 4302        | Turbine Trip Devices  |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/18/1995     | 7:15 10/20/1995  | 23:00             | 63.75      | 1005        | Steam Generating Tube |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 10/20/1995     | 23:00 11/4/1995  | 16:48             | 353.8      | 1800        | Boiler Overhaul       |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 11/23/1995     | 6:03 11/26/1995  | 11:45             | 77.69      | 1590        | Stack Outage          |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/29/1995     | 21:00 12/31/1995 | 23:59             | 50.98      | 1050        | Second Superheater    |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 1/1/1996       | 0:00 1/1/1996    | 5:08              | 5.13       | 1050        |                       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 1/10/1996      | 5:45 1/29/1996   | 0:01              | 450.26     | 4520        |                       |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 1/29/1996      | 0:01 2/26/1996   | 23:59             | 695.96     | 4520        | nil                   |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 2/27/1996      | 0:01 4/17/1996   | 19:53             | 1195.86    | 4520        | nil                   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 4/20/1996      | 12:21 4/20/1996  | 17:39             | 5.3        | 3521        |                       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 4/20/1996      | 20:42 4/22/1996  | 5:06              | 32.4       | 3521        |                       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/11/1996      | 2:38 5/11/1996   | 9:40              | 7.03       | 4309        | nil                   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/22/1996      | 4:54 5/22/1996   | 5:32              | 0.63       | 9910        | Normal                |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/5/1996       | 5:51 6/5/1996    | 6:24              | 0.55       | 3412        |                       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/11/1996      | 10:11 6/13/1996  | 0:36              | 38.41      | 1080        | nil                   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/24/1996      | 18:29 7/24/1996  | 21:49             | 3.33       | 1471        |                       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/14/1996      | 22:55 9/15/1996  | 16:45             | 17.83      | 3112        |                       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/17/1996      | 5:53 9/17/1996   | 7:43              | 1.83       | 3412        |                       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/25/1996      | 15:58 9/26/1996  | 4:02              | 12.06      | 280         |                       |



| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description   |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|---|
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 10/1/1996 13:30  | 10/1/1996 20:30  | 7                 | 360        |   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/1/1996 20:30  | 10/2/1996 4:10   | 7.66              | 410        |   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/25/1996 2:36  | 10/25/1996 8:36  | 6                 | 1799       |   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/25/1996 8:36  | 11/17/1996 22:50 | 566.23            | 1060       |   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 11/27/1996 13:58 | 11/27/1996 18:00 | 4.03              | 9900       |   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/12/1996 4:59  | 12/16/1996 1:23  | 92.4              | 1060       |   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/23/1996 22:31 | 12/25/1996 2:34  | 28.05             | 1060       |   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 1/24/1997 13:09  | 1/31/1997 23:59  | 178.83            | 4520       | Stator Windings                                       |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 2/1/1997 0:01    | 5/31/1997 22:40  | 2878.65           | 4520       | Rebuild 74 Mill Rollers                               |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 7/7/1997 16:41   | 7/7/1997 18:06   | 1.41              | 4460       | Turbine Overspeed Trip Test                           |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 7/8/1997 0:13    | 7/12/1997 2:22   | 98.15             | 4610       | Hydrogen Cooling System Piping & Valves               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/27/1997 23:34  | 9/28/1997 1:06   | 1.53              | 410        | Burner Problems                                       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/13/1997 0:21  | 10/13/1997 1:03  | 0.7               | 410        | Burner Problems                                       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/27/1997 8:17  | 10/31/1997 22:00 | 109.71            | 1060       | Boiler Tube Leak                                      |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 11/8/1997 2:44   | 11/23/1997 6:54  | 364.16            | 540        | Reheat Steam Piping Up to Turbine Stop Valves         |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/3/1997 3:20   | 12/3/1997 3:51   | 0.51              | 410        | Burner Problems                                       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/5/1997 4:48   | 12/5/1997 5:11   | 0.38              | 410        | Burner Problems                                       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/20/1997 17:28 | 12/30/1997 16:40 | 239.2             | 1040       | First Superheater                                     |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 1/17/1998 5:07   | 1/17/1998 5:43   | 0.6               | 4305       | Automatic Turbine Control System Mechanical Hydraulic |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description  |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|--|
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 2/10/1998 9:17   | 2/18/1998 9:04   | 191.78            | 1050       | Boiler Tube Leak   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 3/20/1998 18:17  | 3/20/1998 21:13  | 2.93              | 4302       | Other Turbine Control Problems                                   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 3/31/1998 8:13   | 3/31/1998 9:28   | 1.25              | 1799       | Boiler Tripped on Fan Excursion Suspect Control Problem for Fans |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 4/3/1998 0:49    | 4/3/1998 1:13    | 0.4               | 410        | Burner Problems  |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 4/29/1998 22:58  | 5/3/1998 10:58   | 84                | 8551       | Repair Precipitator  |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/27/1998 0:35   | 5/27/1998 1:29   | 0.9               | 410        | Other Burner Problems  |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 9/4/1998 22:12   | 9/8/1998 11:58   | 85.76             | 1000       | Repair Tube Leak   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/14/1998 8:04   | 9/14/1998 11:56  | 3.86              | 3261       | Travelling Screen Fouling  |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/15/1998 15:45  | 9/15/1998 18:00  | 2.25              | 3261       | Travelling Screen Fouling  |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 9/17/1998 18:40  | 9/17/1998 20:31  | 1.85              | 410        | Burner Problems  |
| 521       | 168    | Oak Creek #6 | *   |     | U3         | 10/10/1998 1:05  | 10/10/1998 8:05  | 7                 | 8550       | Precip Fouling   |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 10/23/1998 22:09 | 10/26/1998 21:21 | 71.05             | 8590       | Install Trailing Edge Rappers in Precips                         |
| 521       | 168    | Oak Creek #6 | *   |     | U3         | 10/28/1998 23:35 | 11/2/1998 12:38  | 109.05            | 4613       | Low Speed Generator-Inboard Hydrogen Seal Has Excessive Leakage  |
| 521       | 168    | Oak Creek #6 | *   |     | U2         | 11/20/1998 20:48 | 11/22/1998 23:34 | 50.76             | 400        | Burner Windbox Fire at IBI Burner                                |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 1/8/1999 17:53   | 1/11/1999 2:35   | 56.7              | 1080       | Economizer   |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 1/15/1999 1:42   | 1/18/1999 15:50  | 86.13             | 1140       | Superheater Leak   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 2/5/1999 4:00    | 2/5/1999 4:34    | 0.56              | 4302       | Turbine Trip Devices   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 2/26/1999 0:03   | 2/26/1999 0:21   | 0.3               | 4302       | Turbine Trip Devices   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 3/4/1999 23:50   | 3/5/1999 0:28    | 0.63              | 3299       | Unit Trip - Loss of Aux Cond Vacuum                              |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description |   |
|-----------|--------|--------------|-----|-----|------------|----------------|------------------|-------------------|------------|-------------|---|
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 3/13/1999      | 0:25 4/24/1999   | 15:49             | 1023.4     | 1800        | Planned Maintenance Outage                        |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 4/24/1999      | 17:22 4/24/1999  | 19:02             | 1.66       | 1750        | Loss of 62 Mill Due to Flame Scanner              |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 4/27/1999      | 0:40 5/2/1999    | 13:04             | 132.39     | 3431        | Repair Feedwater Tie Valves (U5 to U6)            |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/19/1999      | 5:41 5/19/1999   | 6:28              | 0.78       | 3299        | Unit Trip - Loss of Aux Cond Vacuum               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 5/26/1999      | 12:00 5/26/1999  | 14:00             | 2          | 3261        | Travelling Water Screen Fouling                   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/5/1999       | 3:28 6/5/1999    | 4:27              | 0.98       | 3653        | UPS Power to Service Building                     |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 6/5/1999       | 4:34 6/5/1999    | 4:46              | 0.2        | 380         | 2A Exhauster - Flame Failure                      |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 6/9/1999       | 0:23 6/9/1999    | 5:33              | 5.16       | 520         | Other Main Steam Valves                           |
| 521       | 168    | Oak Creek #6 | *   |     | PO         | 6/19/1999      | 22:00 6/20/1999  | 15:00             | 17         | 3110        | Condenser Tube Leak                               |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/9/1999       | 14:45 7/10/1999  | 18:30             | 27.75      | 8590        | Other Precipitator Problems                       |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 7/20/1999      | 3:39 7/20/1999   | 4:17              | 0.63       | 4302        | Turbine Trip Devices                              |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 8/14/1999      | 1:48 8/16/1999   | 6:55              | 53.11      | 3529        | Extraction Steam Valves                           |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 10/3/1999      | 4:55 10/3/1999   | 5:30              | 0.58       | 4460        | Turbine Trip During Oil Trip Test                 |
| 521       | 168    | Oak Creek #6 | *   |     | MO         | 10/16/1999     | 21:36 10/17/1999 | 22:57             | 25.35      | 3521        | Extraction Steam Valves                           |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 11/6/1999      | 3:05 11/6/1999   | 3:48              | 0.71       | 360         | Burners   |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/5/1999      | 3:32 12/5/1999   | 3:55              | 0.38       | 4302        | Turbine Trip - Oil Trip Test                      |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/21/1999     | 1:23 12/21/1999  | 5:59              | 4.6        | 3659        | Coil Failure on DCS Uninterruptable Power Supply  |
| 521       | 168    | Oak Creek #6 | *   |     | U3         | 12/24/1999     | 23:14 12/26/1999 | 23:52             | 48.63      | 4279        | Miscellaneous Turbine Piping                      |
| 521       | 168    | Oak Creek #6 | *   |     | U1         | 12/27/1999     | 12:09 12/30/1999 | 23:00             | 82.85      | 1030        | Water Tube Leak on Division Wall Between 3&4 Cell |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|-------------|
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/4/1977 19:32   | 1/6/1977 6:03    | 34.51             | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 1/22/1977 0:11   | 1/24/1977 3:05   | 50.9              | 1999       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 2/18/1977 23:35  | 2/19/1977 23:35  | 24                | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/19/1977 22:07  | 3/20/1977 22:23  | 24.26             | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/26/1977 4:49   | 3/28/1977 13:14  | 56.41             | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 4/9/1977 21:00   | 4/17/1977 15:27  | 186.45            | 840        |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 4/22/1977 23:36  | 4/25/1977 22:16  | 70.66             | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/15/1977 1:48   | 5/16/1977 6:32   | 28.73             | 1040       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/5/1977 15:52   | 6/8/1977 4:37    | 60.75             | 1040       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/14/1977 0:04   | 6/15/1977 5:56   | 29.86             | 1040       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/17/1977 0:22   | 6/17/1977 22:41  | 22.31             | 1040       |             |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 7/16/1977 18:33  | 7/18/1977 2:45   | 32.2              | 1060       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/23/1977 1:01   | 7/24/1977 16:32  | 39.51             | 1040       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/2/1977 19:11   | 8/4/1977 19:11   | 48                | 1040       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/12/1977 17:58  | 8/15/1977 1:37   | 55.65             | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 9/18/1977 7:58   | 9/20/1977 7:57   | 47.98             | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 10/21/1977 23:18 | 10/24/1977 4:44  | 53.43             | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | PO         | 11/12/1977 3:32  | 12/19/1977 18:23 | 926.85            | 1999       |             |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |      |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|------|
| 521       | 178    | Oak Creek #7 |     |     | U1         | 12/23/1977     | 22:36        | 12/24/1977        | 16:14      | 17.63       | 3130 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/4/1978       | 23:45        | 1/6/1978          | 1:00       | 25.25       | 1000 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/7/1978       | 16:43        | 1/8/1978          | 14:37      | 21.9        | 1000 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/10/1978      | 5:06         | 1/11/1978         | 6:18       | 25.2        | 1000 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 2/17/1978      | 22:30        | 2/20/1978         | 6:17       | 55.78       | 1305 |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 2/21/1978      | 13:53        | 2/21/1978         | 15:49      | 1.93        | 9320 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/11/1978      | 21:35        | 3/12/1978         | 16:13      | 18.63       | 3999 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/26/1978      | 0:02         | 3/26/1978         | 23:13      | 23.18       | 1000 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 4/8/1978       | 23:51        | 4/9/1978          | 7:47       | 7.93        | 8560 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 4/15/1978      | 3:09         | 4/17/1978         | 6:45       | 51.6        | 1305 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 4/28/1978      | 6:17         | 4/29/1978         | 3:53       | 21.6        | 1000 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/4/1978       | 0:03         | 5/7/1978          | 1:02       | 72.98       | 1590 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/13/1978      | 21:43        | 5/15/1978         | 1:21       | 27.63       | 1000 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/15/1978      | 16:55        | 5/15/1978         | 17:05      | 0.16        | 9900 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/20/1978      | 22:50        | 5/22/1978         | 3:47       | 28.95       | 1000 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/31/1978      | 13:39        | 5/31/1978         | 14:05      | 0.43        | 3130 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/6/1978       | 17:14        | 6/8/1978          | 4:42       | 35.46       | 1000 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/9/1978       | 3:17         | 6/10/1978         | 5:46       | 26.48       | 1000 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/16/1978      | 23:14        | 6/20/1978         | 4:17       | 77.05       | 1100 |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event     | Duration in hours | Cause Code | Description |
|-----------|--------|--------------|-----|-----|------------|-----------------|------------------|-------------------|------------|-------------|
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/24/1978 0:35  | 6/26/1978 22:48  | 70.21             | 1455       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/27/1978 22:47 | 6/28/1978 6:47   | 8                 | 1455       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/28/1978 23:06 | 6/29/1978 2:45   | 3.65              | 1455       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/3/1978 14:05  | 7/5/1978 0:34    | 34.48             | 1455       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/5/1978 3:38   | 7/5/1978 4:04    | 0.43              | 1455       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/5/1978 4:12   | 7/5/1978 4:34    | 0.36              | 1455       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/5/1978 6:30   | 7/5/1978 6:43    | 0.21              | 1455       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/17/1978 21:46 | 7/19/1978 21:02  | 47.26             | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/24/1978 16:45 | 7/26/1978 4:23   | 35.63             | 1005       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/27/1978 15:33 | 7/30/1978 23:26  | 79.88             | 1040       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/4/1978 23:09  | 8/6/1978 17:03   | 41.9              | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/7/1978 20:06  | 8/8/1978 0:49    | 4.71              | 4269       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/8/1978 1:00   | 8/8/1978 1:31    | 0.51              | 9900       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/12/1978 1:25  | 8/13/1978 10:06  | 32.68             | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/26/1978 0:34  | 8/28/1978 6:11   | 53.61             | 920        |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 9/30/1978 7:34  | 9/30/1978 22:16  | 14.7              | 4014       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 10/8/1978 1:28  | 10/10/1978 10:35 | 57.11             | 8560       |             |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 10/16/1978 0:07 | 10/16/1978 0:44  | 0.61              | 9320       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 11/4/1978 23:12 | 11/6/1978 8:15   | 33.05             | 8560       |             |

| Utility Unit |     | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |      |  |
|--------------|-----|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|------|--|
| #            | #   |     |     |            |                |              |                   |            |             |      |  |
| 521          | 178 |     |     | U1         | 11/6/1978      | 12:47        | 11/7/1978         | 6:13       | 17.43       | 8560 |  |
| 521          | 178 |     |     | U1         | 11/23/1978     | 1:16         | 11/26/1978        | 21:03      | 91.78       | 895  |  |
| 521          | 178 |     |     | U1         | 12/10/1978     | 10:09        | 12/13/1978        | 11:15      | 73.1        | 1040 |  |
| 521          | 178 |     |     | U1         | 12/14/1978     | 15:36        | 12/15/1978        | 21:54      | 30.3        | 1000 |  |
| 521          | 178 |     |     | U1         | 12/23/1978     | 0:15         | 12/24/1978        | 0:14       | 23.98       | 1000 |  |
| 521          | 178 |     |     | U1         | 12/24/1978     | 21:27        | 12/26/1978        | 17:38      | 44.18       | 1040 |  |
| 521          | 178 |     |     | PO         | 12/30/1978     | 3:31         | 12/31/1978        | 24:00:00   | 44.48       | 1999 |  |
| 521          | 178 |     |     | PO         | 1/1/1979       | 0:01         | 2/21/1979         | 17:46      | 1241.75     | 1999 |  |
| 521          | 178 |     |     | U1         | 2/24/1979      | 22:02        | 2/26/1979         | 8:57       | 34.91       | 8325 |  |
| 521          | 178 |     |     | U1         | 3/8/1979       | 21:50        | 3/9/1979          | 5:59       | 8.14        | 8560 |  |
| 521          | 178 |     |     | U1         | 4/14/1979      | 22:30        | 4/15/1979         | 11:12      | 12.7        | 8560 |  |
| 521          | 178 |     |     | U1         | 5/4/1979       | 0:07         | 5/7/1979          | 8:29       | 80.36       | 8560 |  |
| 521          | 178 |     |     | U1         | 5/8/1979       | 14:08        | 5/10/1979         | 4:49       | 38.68       | 1000 |  |
| 521          | 178 |     |     | U1         | 5/14/1979      | 16:22        | 5/16/1979         | 5:43       | 37.34       | 1060 |  |
| 521          | 178 |     |     | MO         | 5/22/1979      | 22:49        | 5/23/1979         | 4:14       | 5.41        | 3999 |  |
| 521          | 178 |     |     | U1         | 5/23/1979      | 19:35        | 5/24/1979         | 3:06       | 7.51        | 8560 |  |
| 521          | 178 |     |     | MO         | 5/31/1979      | 22:32        | 6/1/1979          | 2:55       | 4.38        | 8560 |  |
| 521          | 178 |     |     | U1         | 6/1/1979       | 23:59        | 6/3/1979          | 23:59      | 48          | 1000 |  |
| 521          | 178 |     |     | U1         | 6/6/1979       | 22:06        | 6/7/1979          | 6:38       | 8.53        | 3999 |  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event    | Duration in hours | Cause Code | Description |
|-----------|--------|--------------|-----|-----|------------|----------------|-----------------|-------------------|------------|-------------|
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/20/1979      | 0:22 6/23/1979  | 6:21 77.98        | 1060       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/23/1979      | 7:54 6/23/1979  | 8:04 0.16         | 4309       |             |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 6/24/1979      | 22:25 6/25/1979 | 4:48 6.38         | 8580       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/25/1979      | 4:58 6/25/1979  | 6:19 1.35         | 740        |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/28/1979      | 0:02 6/29/1979  | 17:00 40.96       | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/3/1979       | 22:36 7/6/1979  | 3:08 52.53        | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/16/1979      | 20:56 7/18/1979 | 22:13 49.28       | 1100       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/25/1979      | 23:38 7/30/1979 | 6:40 103.03       | 1100       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/11/1979      | 23:55 8/13/1979 | 6:00 30.08        | 8560       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/13/1979      | 21:21 8/15/1979 | 19:37 46.26       | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/24/1979      | 23:23 8/26/1979 | 5:15 29.86        | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 9/2/1979       | 1:02 9/2/1979   | 18:30 17.46       | 4619       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 11/1/1979      | 1:38 11/5/1979  | 6:15 100.61       | 1100       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/8/1980       | 2:11 1/11/1980  | 4:52 74.68        | 1080       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 2/1/1980       | 0:37 2/3/1980   | 5:47 53.16        | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 2/3/1980       | 9:02 2/3/1980   | 16:13 7.18        | 3149       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/2/1980       | 7:53 3/2/1980   | 9:28 1.58         | 1799       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/22/1980      | 2:47 3/24/1980  | 5:27 50.66        | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 4/24/1980      | 13:27 4/24/1980 | 18:44 5.28        | 3149       |             |



| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |      |  |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|------|--|
| 521       | 178    | Oak Creek #7 |     |     | U1         | 4/26/1980      | 0:30         | 4/27/1980         | 13:48      | 37.3        | 3130 |  |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 5/9/1980       | 8:59         | 6/30/1980         | 24:00:00   | 1263.01     | 4400 |  |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 7/1/1980       | 0:01         | 7/10/1980         | 15:19      | 231.3       | 4400 |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/10/1980      | 15:49        | 8/5/1980          | 17:55      | 626.09      | 4400 |  |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 8/6/1980       | 6:03         | 8/6/1980          | 6:35       | 0.53        | 4309 |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/8/1980       | 21:07        | 8/10/1980         | 1:17       | 28.16       | 8560 |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/16/1980      | 2:27         | 8/17/1980         | 6:20       | 27.88       | 8560 |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/22/1980      | 23:48        | 8/23/1980         | 14:30      | 14.7        | 8560 |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 9/1/1980       | 9:59         | 9/2/1980          | 1:37       | 15.63       | 8560 |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 9/5/1980       | 20:48        | 9/6/1980          | 7:41       | 10.88       | 8560 |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 9/12/1980      | 23:40        | 9/13/1980         | 4:11       | 4.51        | 8560 |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 9/13/1980      | 6:30         | 9/13/1980         | 7:44       | 1.23        | 3190 |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 9/26/1980      | 23:30        | 9/28/1980         | 23:25      | 47.91       | 1000 |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 9/29/1980      | 21:53        | 9/30/1980         | 9:54       | 12.01       | 4609 |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 10/2/1980      | 20:40        | 10/4/1980         | 10:42      | 38.03       | 1400 |  |
| 521       | 178    | Oak Creek #7 |     |     | PO         | 10/11/1980     | 1:06         | 12/31/1980        | 24:00:00   | 1990.9      | 1999 |  |
| 521       | 178    | Oak Creek #7 |     |     | PO         | 1/1/1981       | 0:01         | 3/29/1981         | 5:05       | 2093.06     | 4400 |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/29/1981      | 15:31        | 3/29/1981         | 18:11      | 2.66        | 4301 |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/29/1981      | 22:20        | 3/29/1981         | 23:30      | 1.16        | 740  |  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event | Duration in hours | Cause Code | Description |
|-----------|--------|--------------|-----|-----|------------|------------------|--------------|-------------------|------------|-------------|
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/29/1981 23:47  | 3/30/1981    | 1:35              | 740        |             |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 4/16/1981 23:19  | 4/20/1981    | 3:57              | 4269       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/1/1981 19:08   | 5/4/1981     | 4:16              | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/12/1981 18:06  | 5/15/1981    | 9:25              | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/17/1981 4:30   | 5/18/1981    | 1:03              | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/26/1981 13:53  | 5/29/1981    | 10:26             | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/30/1981 23:43  | 5/31/1981    | 8:15              | 8560       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/7/1981 9:58    | 6/9/1981     | 0:53              | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/14/1981 0:05   | 6/15/1981    | 4:40              | 1060       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/25/1981 6:33   | 6/26/1981    | 21:51             | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/17/1981 23:59  | 7/19/1981    | 10:51             | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/14/1981 23:30  | 8/17/1981    | 2:50              | 1040       |             |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 8/26/1981 17:16  | 8/29/1981    | 8:21              | 1000       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/31/1981 4:16   | 10/13/1981   | 14:17             | 1999       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 10/13/1981 16:58 | 10/13/1981   | 23:24             | 380        |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 10/17/1981 16:24 | 10/20/1981   | 19:58             | 1040       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 10/22/1981 23:06 | 10/24/1981   | 11:49             | 1040       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 10/29/1981 22:36 | 10/31/1981   | 8:32              | 1060       |             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 11/7/1981 19:50  | 11/8/1981    | 3:55              | 340        |             |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description |  |
|-----------|--------|--------------|-----|-----|------------|----------------|------------------|-------------------|------------|-------------|--|
| 521       | 178    | Oak Creek #7 |     |     | U1         | 11/14/1981     | 21:28 11/15/1981 | 6:52              | 9.39       | 8560        |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 11/19/1981     | 12:38 11/21/1981 | 13:24             | 48.76      | 1000        |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 11/27/1981     | 19:30 11/29/1981 | 18:08             | 46.63      | 1060        |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 12/3/1981      | 22:03 12/5/1981  | 9:37              | 35.56      | 1000        |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 12/6/1981      | 8:57 12/6/1981   | 9:43              | 0.76       | 9270        |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 12/7/1981      | 13:42 12/7/1981  | 16:22             | 2.66       | 9900        |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 12/13/1981     | 3:54 12/14/1981  | 1:56              | 22.03      | 8560        |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 12/16/1981     | 12:04 12/19/1981 | 7:19              | 67.25      | 1000        |  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 12/24/1981     | 11:03 12/25/1981 | 8:34              | 21.51      | 1850        |  |
| 521       | 178    | Oak Creek #7 |     |     | U3         | 1/7/1982       | 23:23 1/14/1982  | 13:07             | 157.73     | 1000        | Boiler, Furnace Water Tube Leak  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/26/1982      | 23:17 1/27/1982  | 8:45              | 9.46       | 8560        | Clear Precip Grounds   |
| 521       | 178    | Oak Creek #7 |     |     | U3         | 2/6/1982       | 22:17 2/7/1982   | 17:33             | 19.26      | 8550        | Precipitator Field Grnd, Out to Clear Precip Grounds and Empty Hoppers |
| 521       | 178    | Oak Creek #7 |     |     | U2         | 2/17/1982      | 9:59 2/18/1982   | 22:32             | 36.55      | 890         | Remove Bottom Ash from Ash Pit and Incline                             |
| 521       | 178    | Oak Creek #7 |     |     | U2         | 2/21/1982      | 20:51 2/23/1982  | 21:55             | 49.06      | 1060        | Out to Repair Reheat Pendant Leak Elev 121                             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/7/1982       | 1:55 3/7/1982    | 23:50             | 21.91      | 1060        | Reheat Pendant Tube Rupture  |
| 521       | 178    | Oak Creek #7 |     |     | PO         | 3/13/1982      | 1:33 4/16/1982   | 13:32             | 827.98     | 1800        | Boiler and Turbine, Annual Outage                                      |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 4/22/1982      | 11:51 4/23/1982  | 19:00             | 31.15      | 1000        | Boiler, Lower East Wall Water Tube Rupture                             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 4/23/1982      | 19:01 5/1/1982   | 10:52             | 183.85     | 740         | 71/72 BBP Motor Bearings Damaged                                       |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/4/1982       | 0:44 5/4/1982    | 7:14              | 6.5        | 8560        | Remove Wire Ground from Precips Inlet and Center                       |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event     | Duration in hours | Cause Code | Description   |
|-----------|--------|--------------|-----|-----|------------|-----------------|------------------|-------------------|------------|---|
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/8/1982 22:46  | 5/10/1982 8:06   | 33.33             | 1005       | Repair Ruptured Water Wall Tube   |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/21/1982 19:18 | 5/23/1982 8:06   | 36.8              | 1005       | Boiler, Water Tube Rupture in Area of Drip Screen at Ash Pit Water Seal             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/30/1982 21:10 | 6/1/1982 3:47    | 30.61             | 1030       | Furnace Bottom (Remove Precip Wires)  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/4/1982 18:14  | 6/6/1982 3:24    | 33.16             | 1005       | Boiler, Water Wall Tube Rupture   |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/19/1982 12:17 | 6/19/1982 17:36  | 5.31              | 8560       | Remove Grounds from Two Fields of the Precipitator                                  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/20/1982 11:45 | 6/22/1982 20:30  | 56.75             | 1005       | Boiler, Water Tube Leak Under Nose West Side on North Hopper                        |
| 521       | 178    | Oak Creek #7 |     |     | PO         | 6/25/1982 23:26 | 6/27/1982 12:52  | 37.43             | 8560       | Remove Broken Wire in Precipitator  |
| 521       | 178    | Oak Creek #7 |     |     | U2         | 7/5/1982 0:02   | 7/6/1982 0:52    | 24.83             | 1030       | Boiler, Water Tube Leak   |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/13/1982 13:11 | 7/18/1982 17:50  | 124.65            | 1005       | Boiler, Water Tube Failure  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/22/1982 0:04  | 7/26/1982 2:51   | 98.78             | 1030       | Boiler, Repair Water Wall Leak  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 7/26/1982 8:18  | 7/27/1982 6:19   | 22.01             | 1005       | Repair Water Wall Tube  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/8/1982 1:33   | 8/8/1982 7:23    | 5.83              | 8560       | Clear Precip Grounds  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/11/1982 20:32 | 8/11/1982 21:10  | 0.63              | 1999       | BBP Diff Press Trip, Water Entered Enclosure and Activated Trip - Reset/started UNI |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/25/1982 23:14 | 8/27/1982 11:00  | 35.76             | 1070       | Boiler, Reheat Pendant Leak South Side EL 121                                       |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 9/27/1982 17:12 | 10/1/1982 14:02  | 92.83             | 1000       | Boiler, Water Wall Top of Burners SE Corner   |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 10/5/1982 13:39 | 10/7/1982 14:55  | 49.26             | 1060       | Boiler, Reheater Pendant Leak on 4 Cell   |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 10/20/1982 9:59 | 10/23/1982 1:20  | 63.35             | 1005       | Boiler, Repair Water Wall Leak 87 SE Corner   |
| 521       | 178    | Oak Creek #7 |     |     | U2         | 11/3/1982 21:53 | 11/8/1982 19:53  | 118               | 1000       | Repair Boiler Water Wall and Reheat Tube Leaks                                      |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 11/25/1982 6:24 | 11/28/1982 10:34 | 76.16             | 1005       | Boiler, Repair Water Wall Leak  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event    | Duration in hours | Cause Code | Description  |
|-----------|--------|--------------|-----|-----|------------|------------------|-----------------|-------------------|------------|--|
| 521       | 178    | Oak Creek #7 |     |     | U1         | 11/30/1982 21:56 | 12/3/1982 10:29 | 84.55             | 1100       | Boiler, Repair Reheat and Water Wall Leaks                         |
| 521       | 178    | Oak Creek #7 |     |     | U2         | 12/20/1982 20:50 | 12/24/1982 2:03 | 77.21             | 1000       | Repair Front Water Wall Leak at 83 Soot Blower                     |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/5/1983 21:46   | 1/9/1983 21:46  | 96                | 1005       | Repair Water Wall Leaks, & Repair Gen Oil Circuit, Breaker C Phase |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/10/1983 1:42   | 1/10/1983 2:16  | 0.56              | 9900       | Unit Tripped, Operator Error                                       |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/28/1983 7:41   | 1/31/1983 8:00  | 72.31             | 1005       | Repair Boiler Water Wall Leaks                                     |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 2/27/1983 19:46  | 2/10/1983 3:34  | 55.8              | 1000       | Repair Water Wall Leak   |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/8/1983 23:32   | 3/11/1983 12:26 | 60.9              | 1005       | Repair Water Wall Leak   |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/15/1983 22:44  | 3/18/1983 1:50  | 51.1              | 1030       | Water Tube Leak Lower Incline South Side                           |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/22/1983 14:49  | 3/25/1983 17:50 | 75.01             | 1000       | Repair Water Tube Leak   |
| 521       | 178    | Oak Creek #7 |     |     | PO         | 4/9/1983 6:05    | 5/9/1983 2:12   | 716.11            | 1800       | Planned Annual Outage  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/21/1983 22:39  | 5/22/1983 0:46  | 2.11              | 4261       | Control Valves Closed Unit Tripped on Reverse Power Play           |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/22/1983 17:26  | 6/1/1983 16:19  | 238.88            | 540        | Repair Reheat Leaks  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/22/1983 0:55   | 5/22/1983 1:33  | 0.63              | 770        | Boiler Booster Pump Trip due to a Low Drum Level                   |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/15/1983 21:50  | 6/19/1983 5:00  | 79.16             | 3440       | 76 and 77 HP Feedwater Heaters out to Repair Internal Leaks        |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/19/1983 5:00   | 6/20/1983 11:53 | 30.88             | 1510       | Repair 72 ID Fan Ductwork  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/22/1983 20:16  | 6/24/1983 7:02  | 34.76             | 1060       | Took Unit Out to Repair Reheat Leak                                |
| 521       | 178    | Oak Creek #7 | *   |     | U3         | 7/9/1983 0:10    | 7/10/1983 5:02  | 28.86             | 1050       | Superheat Platen Assembly Leak Elevation 121                       |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/5/1983 21:20   | 8/6/1983 13:38  | 16.29             | 1030       | Repair Water Tube Leak EL 19                                       |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/9/1983 22:47   | 8/12/1983 22:25 | 71.63             | 1000       | Unit Out to Repair Water Wall Leak                                 |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |      |  |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|------|--|
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 9/3/1983       | 0:08         | 9/8/1983          | 13:55      | 133.78      | 1000 | Water Wall Leak  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 9/12/1983      | 1:44         | 9/12/1983         | 2:12       | 0.46        | 380  | Low Coal Flow Trip on Start by Oil Pump - FSSS Problem |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 9/19/1983      | 18:47        | 9/26/1983         | 3:20       | 152.55      | 1140 | Superheat Pendant Tube Rupture                         |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 9/30/1983      | 15:42        | 10/2/1983         | 6:43       | 39.01       | 1060 | Reheat Tube Rupture                                    |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 10/28/1983     | 23:19        | 10/30/1983        | 4:37       | 29.3        | 1005 | Repair Water Wall Leak South - East Corner of EL 48    |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 12/8/1983      | 9:02         | 12/11/1983        | 18:47      | 81.75       | 1005 | Water Tube Leak  |
| 521       | 178    | Oak Creek #7 | *   |     | U3         | 12/30/1983     | 23:14        | 12/31/1983        | 24:00:00   | 24.76       | 1000 | Repair Water Wall Leak                                 |
| 521       | 178    | Oak Creek #7 |     |     | U3         | 1/1/1984       | 0:00         | 1/2/1984          | 1:56       | 25.93       | 1000 | Repair Water Wall Leak, Started in '83                 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/2/1984       | 3:42         | 1/2/1984          | 4:10       | 0.46        | 9900 | Push Button Trip, Hi Drum Press                        |
| 521       | 178    | Oak Creek #7 |     |     | U2         | 1/3/1984       | 22:17        | 1/4/1984          | 1:45       | 3.46        | 1060 | Reheat Leak  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/27/1984      | 22:13        | 1/28/1984         | 20:35      | 22.36       | 760  | Boiler Recirculation Valve                             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/30/1984      | 13:41        | 2/3/1984          | 3:25       | 85.73       | 1005 | Generating Tubes                                       |
| 521       | 178    | Oak Creek #7 |     |     | U3         | 3/5/1984       | 13:50        | 3/15/1984         | 11:25      | 237.58      | 4261 | Control Valves   |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/23/1984      | 10:50        | 3/26/1984         | 2:50       | 64          | 1005 | Generating Tubes                                       |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/30/1984      | 7:19         | 4/2/1984          | 14:00      | 78.68       | 1005 | Generating Tubes                                       |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 4/21/1984      | 21:22        | 4/24/1984         | 0:01       | 50.65       | 1005 | Generating Tubes                                       |
| 521       | 178    | Oak Creek #7 |     |     | U2         | 4/24/1984      | 0:02         | 4/24/1984         | 3:00       | 2.96        | 690  | Other Feedwater Problems                               |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 4/24/1984      | 3:00         | 4/24/1984         | 11:44      | 8.73        | 1005 | Generating Tubes                                       |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/10/1984      | 4:18         | 5/13/1984         | 1:36       | 69.3        | 1005 | Generating Tube Leak                                   |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                     |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|---------------------------------|
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/15/1984 11:14  | 5/20/1984 5:32   | 114.3             | 1050       | Second Superheater              |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 5/31/1984 16:30  | 6/3/1984 11:05   | 66.58             | 1080       | Economizer Leak                 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 6/3/1984 11:05   | 6/3/1984 15:50   | 4.75              | 4301       | Loss of Voltage to Main Stop VV |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 7/3/1984 11:26   | 7/8/1984 2:38    | 111.2             | 1070       | Second Reheater                 |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 7/9/1984 13:10   | 7/11/1984 11:40  | 46.5              | 1005       | Generating Tube                 |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 7/14/1984 10:41  | 7/14/1984 11:21  | 0.66              | 9900       | Operator Error                  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/23/1984 17:11  | 8/27/1984 20:15  | 99.06             | 1060       | First Reheater                  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/27/1984 20:15  | 8/27/1984 22:15  | 2                 | 9910       | Maintenance Error               |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/27/1984 22:25  | 8/27/1984 5:57   | 7.7               | 1060       | First Reheater                  |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 8/31/1984 20:14  | 8/31/1984 21:36  | 1.36              | 1800       | Test                            |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 9/1/1984 3:47    | 10/26/1984 22:05 | 1338.3            | 1800       | Boiler Overhaul                 |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 10/27/1984 2:40  | 10/28/1984 3:53  | 25.21             | 1799       | Other Control Problems          |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 10/29/1984 21:04 | 10/30/1984 5:50  | 8.76              | 8560       | Electrostatic Precip Problems   |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 10/30/1984 5:50  | 10/30/1984 12:26 | 6.6               | 1440       | Air Supply Dampers              |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 11/3/1984 15:04  | 11/3/1984 23:15  | 8.18              | 1710       | Boiler Controls                 |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 11/3/1984 23:16  | 11/4/1984 10:56  | 11.66             | 3431       | Other Feedwater Valves          |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 11/13/1984 6:30  | 11/14/1984 3:58  | 21.46             | 1710       | Combustion Controls FSSS        |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 11/21/1984 4:38  | 11/21/1984 6:12  | 1.56              | 3149       | Loss of Vacuum                  |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 11/21/1984 17:35 | 11/25/1984 17:58 | 96.38             | 1440       | Air Supply Dampers              |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event    | Duration in hours | Cause Code | Description                       |
|-----------|--------|--------------|-----|-----|------------|------------------|-----------------|-------------------|------------|-----------------------------------|
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 12/11/1984 19:49 | 12/14/1984 3:44 | 55.91             | 1050       | Second Superheater                |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 12/20/1984 12:58 | 12/24/1984 2:49 | 85.85             | 1005       | Generating Tube                   |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/14/1985 9:07   | 1/15/1985 10:00 | 24.88             | 1005       | Generating Tube                   |
| 521       | 178    | Oak Creek #7 |     |     | SF         | 1/15/1985 10:00  | 1/15/1985 11:32 | 1.53              | 380        | Light-Off Systems                 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 2/3/1985 19:24   | 2/3/1985 20:08  | 0.73              | 1710       | FSSS Power Supply                 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/7/1985 0:02    | 3/7/1985 0:51   | 0.81              | 1710       | Combustion Controls               |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/8/1985 13:02   | 3/10/1985 22:53 | 57.85             | 1005       | Generating Tube                   |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/24/1985 13:08  | 3/25/1985 7:51  | 18.71             | 1005       | Generating Tube                   |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 4/11/1985 20:25  | 4/12/1985 8:00  | 11.58             | 9620       | Precipitator Grounds              |
| 521       | 178    | Oak Creek #7 |     |     | SF         | 4/12/1985 8:00   | 4/12/1985 9:26  | 1.43              | 1710       | Combustion Controls               |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 4/19/1985 23:09  | 4/21/1985 9:50  | 34.68             | 1005       | Generating Tube                   |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 4/22/1985 21:42  | 4/24/1985 8:50  | 35.13             | 1005       | Generating Tube                   |
| 521       | 178    | Oak Creek #7 |     |     | SF         | 4/24/1985 8:50   | 4/24/1985 16:22 | 7.53              | 1710       | Combustion Controls               |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 5/25/1985 0:22   | 5/25/1985 8:23  | 8.01              | 9620       | Precipitator Grounds              |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 5/31/1985 19:09  | 6/3/1985 5:05   | 57.93             | 1060       | First Reheater - Repair Tube Leak |
| 521       | 178    | Oak Creek #7 |     |     | SF         | 6/3/1985 5:05    | 6/3/1985 9:30   | 4.41              | 4609       | Exciter Problems                  |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 6/13/1985 22:59  | 6/18/1985 4:16  | 101.28            | 1050       | Second Superheater                |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 8/7/1985 11:11   | 8/10/1985 14:50 | 75.65             | 1070       | Second Reheater                   |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 9/3/1985 3:08    | 9/3/1985 11:02  | 7.9               | 3149       | Loss of Vacuum                    |



| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description               |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|---------------------------|
| 521       | 178    | Oak Creek #7 |     |     | U1         | 9/5/1985 22:03   | 9/8/1985 17:29   | 67.43             | 1005       | Generating Tube           |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 9/12/1985 21:30  | 9/15/1985 1:22   | 51.86             | 1070       | Second Reheater           |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 10/3/1985 15:34  | 10/7/1985 3:37   | 84.05             | 1060       | First Reheater            |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 10/16/1985 19:35 | 10/20/1985 4:00  | 80.41             | 1070       | Second Reheater           |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 10/20/1985 4:00  | 10/20/1985 8:00  | 4                 | 360        | Burner Tilts Inoperative  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 10/20/1985 8:00  | 10/20/1985 16:46 | 8.76              | 380        | Igniter Problems          |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 10/26/1985 4:35  | 10/27/1985 1:45  | 21.16             | 4014       | Bucket & Blade Fouling    |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 11/1/1985 2:42   | 11/1/1985 3:22   | 0.66              | 9270       | Unit Trip Wet Coal        |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 11/1/1985 5:20   | 11/1/1985 5:50   | 0.5               | 9270       | Unit Trip Wet Coal        |
| 521       | 178    | Oak Creek #7 |     |     | PO         | 11/1/1985 15:35  | 12/9/1985 19:41  | 940.1             | 1800       | Annual Outage             |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 12/10/1985 3:05  | 12/10/1985 3:32  | 0.45              | 9900       | ID Fan Tripped            |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 12/10/1985 20:03 | 12/12/1985 10:06 | 38.05             | 880        | Flyash Handling Equipment |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 12/14/1985 1:28  | 12/15/1985 4:57  | 27.48             | 1005       | Generating Tube           |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 12/29/1985 1:19  | 12/30/1985 17:38 | 40.31             | 1005       | Generating Tube           |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/3/1986 21:58   | 1/6/1986 4:48    | 54.83             | 1050       | Second Superheater        |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 1/11/1986 8:14   | 1/11/1986 9:13   | 0.98              | 4302       | Turbine Trip Devices      |
| 521       | 178    | Oak Creek #7 |     |     | U3         | 1/16/1986 20:13  | 1/19/1986 2:06   | 53.88             | 1005       | Generating Tube           |
| 521       | 178    | Oak Creek #7 |     |     | U2         | 2/5/1986 20:15   | 2/9/1986 3:17    | 79.03             | 1060       | First Reheater            |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 2/24/1986 22:23  | 2/27/1986 6:50   | 56.45             | 1050       | Second Superheater        |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event    | Duration in hours | Cause Code | Description                   |
|-----------|--------|--------------|-----|-----|------------|-----------------|-----------------|-------------------|------------|-------------------------------|
| 521       | 178    | Oak Creek #7 |     |     | SF         | 2/27/1986 6:50  | 2/27/1986 16:10 | 9.33              | 4300       | Turbine Supervisory System    |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/8/1986 21:04  | 3/11/1986 9:59  | 60.91             | 1005       | Generating Tube               |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/12/1986 22:21 | 3/16/1986 1:12  | 74.85             | 1080       | Economizer Tube Leak          |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/19/1986 21:10 | 3/20/1986 17:11 | 20.01             | 1105       | Generating Tube Leak          |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/27/1986 9:27  | 3/30/1986 5:46  | 68.31             | 1005       | Generating Tube Leak          |
| 521       | 178    | Oak Creek #7 |     |     | SF         | 3/30/1986 5:46  | 3/30/1986 12:08 | 6.36              | 9900       | Operator Error                |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 4/4/1986 21:40  | 4/7/1986 1:18   | 51.63             | 1070       | Second Reheater Tube Leak     |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 4/24/1986 18:54 | 4/25/1986 18:08 | 23.23             | 4840       | Inspection - Generator Ground |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 5/2/1986 9:01   | 5/4/1986 21:35  | 60.56             | 1070       | Second Reheater               |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 5/9/1986 23:49  | 5/12/1986 4:25  | 52.6              | 1050       | Second Superheater            |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 6/20/1986 10:25 | 6/22/1986 22:25 | 60                | 1070       | Reheat Leak                   |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 6/22/1986 22:25 | 6/25/1986 7:45  | 57.33             | 600        | Desuperheater Spray Nozzles   |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 6/25/1986 7:46  | 6/29/1986 16:00 | 104.23            | 1005       | Generating Tube               |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 7/10/1986 20:02 | 7/12/1986 12:51 | 40.81             | 1005       | Generating Tube               |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 7/15/1986 14:15 | 7/15/1986 14:57 | 0.7               | 9910       | Maint Error - Elect Switching |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 7/23/1986 16:54 | 7/25/1986 21:58 | 53.06             | 1070       | Second Reheat Leak            |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 7/29/1986 4:35  | 8/2/1986 13:40  | 114.36            | 1050       | Second Superheater            |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 8/7/1986 18:34  | 8/12/1986 2:57  | 104.38            | 4261       | Repair Control Valve          |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 8/18/1986 18:18 | 8/19/1986 1:54  | 7.6               | 3110       | Condenser Tube Leaks          |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |                                |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|--------------------------------|
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 8/20/1986      | 8/22/1986    | 4:53              | 36.45      | 3110        | Condenser Tube Leaks           |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 8/28/1986      | 9/1/1986     | 22:10             | 95.38      | 1005        | Generating Tube Leak           |
| 521       | 178    | Oak Creek #7 |     |     | PO         | 10/3/1986      | 12/31/1986   | 24:00:00          | 2162.56    | 1800        | Annual Outage                  |
| 521       | 178    | Oak Creek #7 |     |     | PO         | 1/1/1987       | 1/5/1987     | 20:00             | 115.98     | 1800        | Annual Outage, Started 10-3-86 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/6/1987       | 1/6/1987     | 3:08              | 2.21       | 4099        | Other HI Press Turb Problems   |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 1/6/1987       | 1/7/1987     | 14:54             | 17.9       | 8560        | Electrostatic Precip Problems  |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 1/11/1987      | 1/11/1987    | 19:01             | 13.06      | 1480        | Other ID Fan Problems          |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/27/1987      | 1/27/1987    | 16:00             | 10.11      | 8560        | Electrostatic Precip Problems  |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 1/27/1987      | 1/27/1987    | 20:41             | 4.68       | 1799        | BLR Controls                   |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 2/3/1987       | 2/4/1987     | 16:17             | 18.29      | 1005        | Generating Tube                |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 2/9/1987       | 2/9/1987     | 10:18             | 0.88       | 1710        | Combustion - Steam Control     |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 2/13/1987      | 2/15/1987    | 0:10              | 25.45      | 1005        | Generating Tube                |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 3/2/1987       | 3/5/1987     | 1:00              | 49.26      | 1005        | Generating Tube                |
| 521       | 178    | Oak Creek #7 |     |     | SF         | 3/5/1987       | 3/5/1987     | 12:43             | 11.71      | 1710        | Boiler Control                 |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 3/9/1987       | 3/9/1987     | 8:22              | 1.28       | 1799        | Blr Controls - FSSS            |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 3/26/1987      | 3/31/1987    | 2:00              | 117.93     | 4264        | Cmbined Intercept Vlvs         |
| 521       | 178    | Oak Creek #7 | *   |     | SE         | 3/31/1987      | 4/2/1987     | 1:48              | 47.8       | 1420        | Other FD Fan Problems          |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 4/2/1987       | 4/4/1987     | 9:03              | 43.7       | 1050        | Second Superheater             |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 5/18/1987      | 5/20/1987    | 22:27             | 65.53      | 1005        | Generating Tube                |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                   |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|-------------------------------|
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 6/23/1987 21:43  | 6/24/1987 8:16   | 10.55             | 8560       | Precip Problem Field Grounds  |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 8/20/1987 20:29  | 8/21/1987 5:58   | 9.48              | 8560       | Precip Fields Out             |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 10/12/1987 12:19 | 10/13/1987 7:30  | 19.18             | 540        | Rpl Reheat Hdr Flange Gasket  |
| 521       | 178    | Oak Creek #7 |     |     | PO         | 11/6/1987 21:19  | 11/27/1987 18:32 | 1245.21           | 1800       | Annual Outage                 |
| 521       | 178    | Oak Creek #7 |     |     | U2         | 12/28/1987 13:34 | 12/29/1987 2:00  | 12.43             | 3149       | Loss of Vacuum                |
| 521       | 178    | Oak Creek #7 |     |     | U2         | 12/29/1987 2:01  | 12/29/1987 18:50 | 16.81             | 8560       | Precipitator Ground           |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 12/30/1987 12:56 | 12/30/1987 14:05 | 1.15              | 4460       | Turb Overspeed Trip Tests     |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 1/20/1988 0:19   | 1/24/1988 14:02  | 109.71            | 4260       | Remove Steam Strainers        |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 4/23/1988 2:38   | 4/23/1988 3:15   | 0.61              | 770        | Other Blr Recirc Problems     |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 5/21/1988 1:28   | 5/21/1988 21:30  | 20.03             | 540        | Reheat Steam Piping           |
| 521       | 178    | Oak Creek #7 | *   |     | SF         | 5/21/1988 21:30  | 5/22/1988 11:00  | 13.5              | 8560       | Electrostatic Precip Problems |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 6/17/1988 19:20  | 6/18/1988 10:00  | 14.66             | 8560       | Electrostatic Precip Problems |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 6/19/1988 23:13  | 6/20/1988 8:27   | 9.23              | 4430       | Gland Seal Sys Regular        |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 7/5/1988 4:20    | 7/5/1988 11:32   | 7.2               | 8560       | Electrostatic Precip Problems |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 7/22/1988 22:28  | 7/23/1988 16:35  | 18.11             | 880        | Flyash Grounded Precip        |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 7/24/1988 11:36  | 7/24/1988 21:25  | 9.81              | 8560       | Precip Wire Problem           |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 8/13/1988 3:16   | 8/13/1988 10:19  | 7.05              | 3431       | Fdwtr Htr Safety Vlvs         |
| 521       | 178    | Oak Creek #7 |     |     | MO         | 9/14/1988 23:48  | 9/15/1988 6:06   | 6.3               | 8560       | Electrostatic Precip Problems |
| 521       | 178    | Oak Creek #7 |     |     | U1         | 9/15/1988 11:25  | 9/17/1988 11:30  | 48.08             | 1005       | Generating Tube               |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event | Duration in hours | Cause Code | Description |  |
|-----------|--------|--------------|-----|-----|------------|------------------|--------------|-------------------|------------|-------------|--|
| 521       | 178    | Oak Creek #7 |     |     | SF         | 9/17/1988 11:30  | 9/18/1988    | 3:12              | 15.7       | 895         | Ash Pit Trouble                          |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 10/31/1988 7:30  | 12/17/1988   | 14:30             | 1159       | 4400        | Annual Outage                            |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 12/21/1988 21:21 | 12/22/1988   | 5:45              | 8.39       | 1430        | FD Fan Suction Ductwork                  |
| 521       | 178    | Oak Creek #7 | *   |     | SF         | 12/22/1988 5:45  | 12/22/1988   | 10:21             | 4.6        | 1799        | Boiler Controls                          |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 12/22/1988 13:14 | 12/22/1988   | 20:44             | 7.5        | 1799        | Boiler Controls                          |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 12/24/1988 4:07  | 12/25/1988   | 10:33             | 30.43      | 4250        | Balance Low Speed Turb Rotor             |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 12/29/1988 20:01 | 12/29/1988   | 22:09             | 2.13       | 4460        | Turb Overspeed Trip Tests                |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 12/29/1988 22:38 | 12/31/1988   | 24:00:00          | 49.36      | 4260        | Remove Steam Strainers                   |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 1/1/1989 0:01    | 1/3/1989     | 9:27              | 57.43      | 4260        | Remove Steam Strainers, Started 12-29-88 |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 1/6/1989 21:06   | 1/8/1989     | 11:07             | 38.01      | 740         | Blr Booster Pump Replacement             |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 1/1/1989 8:00    | 1/12/1989    | 9:38              | 25.63      | 1005        | Generating Tube                          |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 1/20/1989 22:50  | 1/21/1989    | 1:59              | 3.15       | 1799        | Boiler Controls                          |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 2/7/1989 6:46    | 2/7/1989     | 9:08              | 2.36       | 4700        | Generator Voltage Control                |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 2/9/1989 4:36    | 2/9/1989     | 5:18              | 0.7        | 1710        | Blr Combustion Controls                  |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 4/12/1989 9:19   | 4/15/1989    | 1:54              | 64.58      | 1050        | Second Superheater                       |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 5/12/1989 21:45  | 5/14/1989    | 13:27             | 39.7       | 760         | 73 BBP Mtr Failure                       |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 8/21/1989 7:00   | 8/22/1989    | 1:46              | 18.76      | 500         | Main Steam Piping                        |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 10/21/1989 19:13 | 10/21/1989   | 22:00             | 2.78       | 9900        | Operator Error                           |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 5/8/1990 1:17    | 6/8/1990     | 20:55             | 753.53     | 1800        | Planned Maintenance Outage               |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                      |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|----------------------------------|
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 7/1/1990 23:13   | 7/2/1990 0:04    | 0.85              | 9900       | Operator Error                   |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 12/4/1990 18:36  | 12/4/1990 20:06  | 1.5               | 3112       | Condenser Tube Fouling Tube Side |
| 521       | 178    | Oak Creek #7 | *   |     | SF         | 12/13/1990 7:00  | 12/13/1990 10:44 | 3.73              | 1799       | Other Control Problems           |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 12/18/1990 13:16 | 12/18/1990 14:09 | 0.88              | 1799       | Other Control Problems           |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 1/11/1991 22:33  | 1/12/1991 5:30   | 6.95              | 3110       | Condenser Tube Leak              |
| 521       | 178    | Oak Creek #7 | *   |     | SF         | 1/12/1991 5:30   | 1/13/1991 4:38   | 23.13             | 4261       | Control Valves                   |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 3/1/1991 23:35   | 3/4/1991 1:52    | 50.28             | 1510       | Flue Gas Duct                    |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 3/26/1991 22:16  | 3/27/1991 5:48   | 7.53              | 8560       | Electrostatic Precip Problems    |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 5/2/1991 23:58   | 5/5/1991 21:54   | 69.93             | 1510       | Flue Gas Duct                    |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 5/17/1991 21:42  | 5/20/1991 4:06   | 54.4              | 1005       | Generating Tube Leak             |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 6/8/1991 11:17   | 6/10/1991 22:46  | 59.48             | 1080       | Economizer Leak                  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 7/31/1991 5:24   | 7/31/1991 7:35   | 2.18              | 1750       | Burner Management System         |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 7/31/1991 22:17  | 7/31/1991 22:43  | 0.43              | 1750       | Burner Management System         |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/19/1991 7:41   | 8/19/1991 8:23   | 0.7               | 1750       | Burner Management System         |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/19/1991 21:45  | 8/19/1991 22:26  | 0.68              | 9900       | Operator Error                   |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 10/7/1991 14:02  | 10/12/1991 23:31 | 129.48            | 1040       | First Superheater Leak           |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 10/18/1991 23:04 | 10/20/1991 17:31 | 42.45             | 1040       | Superheater Leak                 |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 2/10/1992 0:01   | 5/23/1992 14:36  | 2462.58           | 1800       | Planned Outage                   |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 5/23/1992 16:45  | 5/23/1992 17:29  | 0.73              | 1800       | Planned Outage                   |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event    | Duration in hours | Cause Code | Description                     |
|-----------|--------|--------------|-----|-----|------------|-----------------|-----------------|-------------------|------------|---------------------------------|
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 5/23/1992 22:02 | 5/26/1992 8:37  | 58.88             | 1800       | Planned Outage                  |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 5/26/1992 12:00 | 5/26/1992 12:28 | 0.48              | 1800       | Planned Outage                  |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 5/26/1992 12:47 | 5/26/1992 13:02 | 0.25              | 1800       | Planned Outage                  |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 5/26/1992 13:32 | 5/26/1992 13:41 | 0.15              | 1800       | Planned Outage                  |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 5/26/1992 13:57 | 5/26/1992 14:05 | 0.13              | 1800       | Planned Outage                  |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 5/26/1992 14:49 | 5/26/1992 15:26 | 0.61              | 1800       | Planned Outage                  |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 5/27/1992 9:42  | 5/27/1992 10:15 | 0.55              | 1800       | Planned Outage                  |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 5/29/1992 8:10  | 5/29/1992 9:40  | 1.5               | 1800       | Planned Outage                  |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 5/31/1992 3:34  | 5/31/1992 4:34  | 1                 | 1710       | Combustion Controls             |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 6/2/1992 20:50  | 6/3/1992 3:26   | 6.6               | 4309       | Other Turb Inst & Ctrl Problems |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 6/10/1992 12:00 | 6/22/1992 11:23 | 287.38            | 1050       | Second Superheater Leak         |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 6/26/1992 19:06 | 6/26/1992 20:18 | 1.2               | 1700       | Feedwater Controls              |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 7/13/1992 16:06 | 7/13/1992 16:57 | 0.85              | 1710       | Combustion Controls             |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 7/13/1992 18:37 | 7/13/1992 19:19 | 0.7               | 1710       | Combustion Controls             |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 7/17/1992 18:35 | 7/18/1992 3:15  | 8.66              | 3414       | Feedwater Pump Controls         |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 7/22/1992 9:26  | 7/22/1992 10:08 | 0.7               | 9910       | Maintenance Error               |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/25/1992 14:55 | 8/25/1992 16:03 | 1.13              | 3415       | Fdwtr Pmp/Drive Lube Oil Sys    |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 9/16/1992 13:10 | 9/22/1992 22:36 | 153.43            | 410        | Other Burner Problems           |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 9/23/1992 3:55  | 9/23/1992 4:40  | 0.75              | 1750       | Burner Management Problems      |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                    |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|--------------------------------|
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 10/16/1992 19:28 | 10/16/1992 23:23 | 3.91              | 1710       | Combustion Controls            |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 10/18/1992 2:00  | 10/18/1992 3:11  | 1.18              | 1799       | Other Boiler Control Problems  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 11/1/1992 6:39   | 11/1/1992 7:31   | 0.86              | 1710       | Combustion Controls            |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 11/10/1992 17:41 | 11/10/1992 22:00 | 4.32              | 1450       | Forced Draft Fan Controls      |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 11/19/1992 14:23 | 11/19/1992 15:40 | 1.28              | 1710       | Combustion Controls            |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 12/14/1992 13:03 | 12/14/1992 14:03 | 1                 | 1710       | Combustion Controls            |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 12/22/1992 17:40 | 12/22/1992 19:32 | 1.86              | 1480       | ID Fan Motors - Variable Speed |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 2/23/1993 3:13   | 2/23/1993 3:47   | 0.56              | 1710       | Combustion Controls            |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 3/18/1993 19:00  | 3/18/1993 21:40  | 2.66              | 1710       | Combustion Controls            |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 3/21/1993 8:30   | 3/21/1993 9:30   | 1                 | 1710       | Combustion Controls            |
| 521       | 178    | Oak Creek #7 | *   |     | SF         | 3/21/1993 9:44   | 3/21/1993 10:31  | 0.78              | 385        | Igniters                       |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 4/3/1993 9:09    | 4/3/1993 10:35   | 1.43              | 1710       | Combustion Controls            |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 4/3/1993 20:38   | 4/3/1993 21:26   | 0.8               | 3499       | Other Fdwtr Sys Problems       |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 4/12/1993 15:18  | 4/12/1993 16:02  | 0.73              | 3499       | Other Fdwtr Sys Problems       |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 4/24/1993 22:01  | 4/26/1993 6:24   | 32.38             | 400        | Burner Windbox Fires           |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 4/26/1993 11:51  | 4/26/1993 14:59  | 3.13              | 4265       | Turbine Drain & Vent Valves    |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 4/30/1993 21:27  | 5/3/1993 5:36    | 56.15             | 360        | Burner                         |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 5/3/1993 8:04    | 5/8/1993 5:15    | 117.18            | 360        | Burner                         |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 5/8/1993 9:24    | 5/8/1993 10:17   | 0.88              | 1750       | Burner Management System       |



| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event     | Duration in hours | Cause Code | Description                             |
|-----------|--------|--------------|-----|-----|------------|-----------------|------------------|-------------------|------------|---|
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 5/15/1993 9:47  | 5/15/1993 16:30  | 6.71              | 4430       | Gland Seal System                       |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 7/7/1993 5:46   | 7/7/1993 13:38   | 7.86              | 3149       | Other Loss of Vacuum                    |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 7/7/1993 15:01  | 7/8/1993 17:27   | 26.43             | 3121       | Expansion Joint                         |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 7/9/1993 23:35  | 7/11/1993 15:54  | 40.31             | 3121       | Expansion Joint                         |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 7/15/1993 0:04  | 7/18/1993 13:25  | 85.35             | 3121       | Expansion Joint                         |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/17/1993 21:16 | 8/17/1993 22:57  | 1.68              | 1475       | ID Fan Control                          |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 9/5/1993 2:39   | 9/5/1993 4:13    | 1.56              | 9270       | Wet Coal                                |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 9/5/1993 4:54   | 9/5/1993 5:41    | 0.78              | 3401       | Fdwtr Pump Drive Controls               |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 9/5/1993 8:31   | 9/5/1993 12:36   | 4.08              | 4265       | Turb Drain & Vent Valves                |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 9/5/1993 15:59  | 9/5/1993 18:00   | 2.01              | 3499       | Other Fdwtr Problems                    |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 11/25/1993 4:43 | 12/31/1993 23:59 | 907.26            | 4400       | Major Turbine Overhaul                  |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 1/1/1994 0:02   | 3/7/1994 21:39   | 1581.61           | 4400       | Major Turbine Overhaul Started 11-25-93 |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 3/8/1994 10:41  | 3/8/1994 11:31   | 0.83              | 9910       | Maintenance Error - DC Switching        |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 3/8/1994 22:08  | 3/9/1994 4:32    | 6.4               | 4700       | Generator Voltage Control               |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 3/11/1994 21:23 | 3/11/1994 23:57  | 2.56              | 4460       | Turbine Overspeed Trip Test             |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 3/14/1994 10:51 | 3/16/1994 5:26   | 42.58             | 1080       | Economizer Leak                         |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 3/22/1994 15:41 | 3/22/1994 19:38  | 3.95              | 3950       | Process Computer                        |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 3/28/1994 6:00  | 3/31/1994 7:58   | 73.96             | 4260       | Main Stop Valves                        |
| 521       | 178    | Oak Creek #7 | *   |     | U3         | 4/5/1994 23:13  | 4/7/1994 3:58    | 28.75             | 1070       | Second Reheater                         |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                     |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|---------------------------------|
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 5/2/1994 21:36   | 5/6/1994 21:28   | 95.86             | 4220       | LP Turbine Shaft Seals          |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 6/13/1994 22:27  | 6/14/1994 3:27   | 5                 | 3950       | Process Computer                |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 10/10/1994 23:22 | 10/11/1994 0:10  | 0.8               | 1710       | Combustion Controls             |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 10/29/1994 3:43  | 10/29/1994 5:03  | 1.33              | 9900       | Operator Error                  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 11/3/1994 10:42  | 11/3/1994 11:51  | 1.15              | 1710       | Combustion Controls             |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 11/6/1994 17:06  | 11/6/1994 17:57  | 0.85              | 1710       | Combustion Controls             |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 11/7/1994 7:43   | 11/7/1994 8:44   | 1.01              | 1710       | Combustion Controls             |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 11/24/1994 0:20  | 11/27/1994 13:49 | 85.48             | 360        | Burners                         |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 2/4/1995 5:04    | 2/5/1995 6:09    | 25.08             | 4301       | Turbine Governor Sys            |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 2/5/1995 12:36   | 2/5/1995 23:23   | 10.78             | 4309       | Other Turb Control Problems     |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 2/6/1995 20:48   | 2/7/1995 8:40    | 11.86             | 3220       | Circulating Water Vlvs          |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 2/8/1995 2:03    | 2/8/1995 3:04    | 1.01              | 741        | Boiler Recirculation Pmp Mtr    |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 3/1/1995 3:40    | 3/1/1995 6:05    | 2.41              | 3271       | Intake Grating Fouling          |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 3/31/1995 23:00  | 4/8/1995 18:42   | 187.7             | 4301       | Turbine Governor Sys            |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/21/1995 10:46  | 8/21/1995 13:48  | 3.03              | 1470       | Induced Drft Fan Motor & Drives |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 9/3/1995 17:00   | 9/3/1995 22:00   | 5                 | 3110       | Condenser Tube Leaks            |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 9/13/1995 9:00   | 9/13/1995 10:15  | 1.25              | 3501       | Heater Drain Pump               |
| 521       | 178    | Oak Creek #7 | *   |     | U2         | 10/6/1995 23:17  | 10/8/1995 19:43  | 44.43             | 1000       | Boiler Tube Leaks               |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 1/1/1996 0:00    | 1/28/1996 15:31  | 663.51            | 1310       | Waterside Boiler tube cleaning  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event    | Duration in hours | Cause Code | Description |  |
|-----------|--------|--------------|-----|-----|------------|----------------|-----------------|-------------------|------------|-------------|--|
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 3/2/1996       | 5:06 3/2/1996   | 7:59              | 2.88       | 9910        |  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 3/21/1996      | 6:52 3/21/1996  | 7:30              | 0.63       | 1710        |  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 3/26/1996      | 15:22 3/26/1996 | 16:20             | 0.96       | 1710        |  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 5/21/1996      | 7:12 5/21/1996  | 8:04              | 0.86       | 1480        |  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 6/11/1996      | 11:27 6/11/1996 | 12:42             | 1.25       | 1799        |  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 7/5/1996       | 9:00 7/9/1996   | 21:58             | 108.96     | 1000        | nil  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/4/1996       | 1:00 8/5/1996   | 1:04              | 24.06      | 1000        |  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/30/1996      | 10:48 8/30/1996 | 13:34             | 2.76       | 4261        |  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 9/9/1996       | 12:45 9/17/1996 | 1:25              | 180.66     | 1000        | nil  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 1/14/1997      | 1:10 1/16/1997  | 21:03             | 67.88      | 1000        | Furnance Wall                                  |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 4/25/1997      | 18:40 5/1/1997  | 12:08             | 137.46     | 1488        | Maintenance Outage to Wash Air Heaters         |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 9/24/1997      | 20:20 9/25/1997 | 2:55              | 6.58       | 1750        | Unit Tripped When Boiler Master Went Into Auto |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 4/10/1998      | 4:15 4/27/1998  | 6:03              | 409.8      | 1488        | Maintenance Outage                             |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 9/14/1998      | 7:52 9/14/1998  | 14:17             | 6.41       | 3261        | Travelling Screen Fouling                      |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 9/15/1998      | 15:45 9/15/1998 | 18:00             | 2.25       | 3261        | Travelling Screen Fouling                      |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 11/12/1998     | 0:28 11/16/1998 | 16:11             | 111.71     | 3620        | Changing Out Main Transformer Oil Pump         |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 11/30/1998     | 7:37 11/30/1998 | 8:20              | 0.71       | 340         | Other Pulverizer Problems                      |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 1/29/1999      | 22:40 2/1/1999  | 14:53             | 64.21      | 1420        | Forced Draft Damper Repairs                    |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 2/5/1999       | 9:47 2/5/1999   | 11:34             | 1.78       | 1750        | Burner Management System                       |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description |                                 |
|-----------|--------|--------------|-----|-----|------------|----------------|------------------|-------------------|------------|-------------|---------------------------------|
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 2/27/1999      | 0:03 3/10/1999   | 11:30             | 275.45     | 890         | Bottom Ash System               |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 3/18/1999      | 9:26 3/18/1999   | 10:09             | 0.71       | 9900        | Operator Error                  |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 4/13/1999      | 6:39 4/13/1999   | 7:51              | 1.2        | 1799        | Boiler Control Problems         |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 5/24/1999      | 2:34 5/24/1999   | 5:19              | 2.75       | 1799        | Boiler Air Control Problems     |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 6/12/1999      | 11:30 6/12/1999  | 23:00             | 11.5       | 3430        | Feedwater Level Controls        |
| 521       | 178    | Oak Creek #7 | *   |     | MO         | 6/12/1999      | 23:00 6/13/1999  | 10:32             | 11.53      | 3110        | Condenser Tube Leak             |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/17/1999      | 9:07 8/17/1999   | 17:18             | 8.18       | 3261        | Travelling Water Screen Fouling |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 8/27/1999      | 3:43 8/27/1999   | 5:21              | 1.63       | 4262        | #2 Intercept Valve Limit Switch |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 10/4/1999      | 6:10 10/4/1999   | 8:15              | 2.08       | 1710        | Combustion Control              |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 10/7/1999      | 8:05 10/11/1999  | 7:28              | 95.38      | 1000        | Furnance Wall                   |
| 521       | 178    | Oak Creek #7 | *   |     | PO         | 10/30/1999     | 0:28 11/22/1999  | 13:32             | 565.06     | 1800        | Planned Maintenance Outage      |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 11/23/1999     | 16:44 11/23/1999 | 17:51             | 1.11       | 1710        | Combustion Control              |
| 521       | 178    | Oak Creek #7 | *   |     | U1         | 12/21/1999     | 17:40 12/21/1999 | 19:24             | 1.73       | 1710        | Combustion Control              |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/23/1977      | 0:20 1/23/1977   | 15:14             | 14.9       | 8560        |                                 |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 2/9/1977       | 1:30 2/10/1977   | 2:21              | 24.85      | 530         |                                 |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/5/1977       | 23:46 3/6/1977   | 7:01              | 7.25       | 1999        |                                 |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 3/10/1977      | 22:26 3/11/1977  | 2:33              | 4.11       | 8560        |                                 |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/26/1977      | 22:55 3/27/1977  | 19:22             | 20.45      | 1000        |                                 |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours   | Cause Code | Description |  |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|---------------------|------------|-------------|--|
| 521       | 188    | Oak Creek #8 |     |     | MO         | 4/3/1977       | 0:01         | 4/3/1977 11:00      | 10.98      | 4830        |  |
| 521       | 188    | Oak Creek #8 |     |     | PO         | 4/16/1977      | 21:55        | 7/4/1977 21:30      | 1895.58    | 1999        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/6/1977       | 5:52         | 7/6/1977 6:15       | 0.38       | 1400        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/10/1977      | 0:18         | 7/11/1977 0:48      | 24.5       | 4550        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/31/1977      | 14:43        | 8/2/1977 12:21      | 45.63      | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/4/1977       | 7:26         | 8/4/1977 8:00       | 0.56       | 1999        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/19/1977      | 23:33        | 8/22/1977 0:28      | 48.91      | 1060        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/31/1977      | 14:51        | 9/3/1977 11:41      | 68.83      | 1040        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/5/1977       | 1:18         | 9/5/1977 20:35      | 19.28      | 1060        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/6/1977       | 3:03         | 9/7/1977 0:51       | 21.8       | 1060        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/27/1977      | 3:50         | 9/27/1977 4:27      | 0.61       | 1455        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 10/15/1977     | 1:17         | 10/17/1977 12:58    | 59.68      | 895         |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 10/20/1977     | 8:50         | 10/20/1977 9:13     | 0.38       | 740         |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 10/28/1977     | 23:50        | 10/30/1977 21:13    | 45.38      | 1100        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 12/25/1977     | 21:12        | 12/27/1977 5:51     | 32.65      | 1305        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 12/29/1977     | 1:24         | 12/31/1977 24:00:00 | 70.6       | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/1/1978       | 0:01         | 1/3/1978 11:08      | 59.11      | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/21/1978      | 0:58         | 1/22/1978 1:42      | 24.73      | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 2/7/1978       | 22:08        | 2/8/1978 5:45       | 7.61       | 380         |  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event    | Duration in hours | Cause Code | Description |
|-----------|--------|--------------|-----|-----|------------|-----------------|-----------------|-------------------|------------|-------------|
| 521       | 188    | Oak Creek #8 |     |     | U1         | 2/28/1978 20:34 | 3/2/1978 16:42  | 44.13             | 1000       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/2/1978 19:17  | 3/2/1978 19:36  | 0.31              | 4309       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 4/1/1978 0:18   | 4/2/1978 11:02  | 34.73             | 1000       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 4/24/1978 14:30 | 4/25/1978 13:09 | 22.65             | 1060       |             |
| 521       | 188    | Oak Creek #8 |     |     | PO         | 4/29/1978 5:17  | 5/29/1978 6:22  | 721.08            | 1999       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/29/1978 11:57 | 5/29/1978 14:39 | 2.7               | 1799       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/29/1978 23:22 | 7/30/1978 19:24 | 20.03             | 8560       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/1/1978 7:40   | 8/1/1978 9:38   | 1.96              | 860        |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/1/1978 23:16  | 8/1/1978 23:50  | 0.56              | 4700       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/5/1978 0:50   | 8/6/1978 0:55   | 24.08             | 4700       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/19/1978 23:18 | 8/20/1978 5:50  | 6.53              | 4700       |             |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 8/20/1978 7:45  | 8/20/1978 16:58 | 9.21              | 4830       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/4/1978 14:13  | 9/4/1978 22:54  | 8.68              | 8550       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/20/1978 0:51  | 9/21/1978 7:38  | 30.78             | 1060       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/25/1978 23:37 | 9/26/1978 9:51  | 10.23             | 1080       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 10/7/1978 1:50  | 10/8/1978 11:56 | 34.09             | 8560       |             |
| 521       | 188    | Oak Creek #8 |     |     | PO         | 10/20/1978 1:15 | 10/30/1978 0:50 | 239.58            | 1999       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 10/30/1978 2:39 | 10/30/1978 7:36 | 4.94              | 1486       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 10/30/1978 9:36 | 11/3/1978 22:40 | 109.06            | 1486       |             |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description |  |
|-----------|--------|--------------|-----|-----|------------|----------------|------------------|-------------------|------------|-------------|--|
| 521       | 188    | Oak Creek #8 |     |     | U1         | 11/12/1978     | 2:48 11/13/1978  | 9:03              | 30.25      | 1486        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 11/18/1978     | 0:59 11/18/1978  | 22:04             | 21.08      | 1486        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 11/21/1978     | 23:15 11/24/1978 | 2:45              | 51.5       | 1486        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 11/29/1978     | 22:35 11/30/1978 | 6:04              | 7.48       | 8550        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 12/17/1978     | 6:53 12/18/1978  | 1:56              | 19.04      | 1080        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/12/1979      | 16:45 1/14/1979  | 9:07              | 40.36      | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/22/1979      | 18:30 1/25/1979  | 9:05              | 62.58      | 1060        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/30/1979      | 18:05 2/1/1979   | 10:22             | 40.28      | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 2/2/1979       | 10:22 2/3/1979   | 5:04              | 18.7       | 1080        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 2/5/1979       | 17:25 2/7/1979   | 1:31              | 32.09      | 1060        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 2/8/1979       | 14:37 2/12/1979  | 9:00              | 90.38      | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/10/1979      | 0:42 3/11/1979   | 19:08             | 42.43      | 4269        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/18/1979      | 13:28 3/18/1979  | 22:28             | 9          | 895         |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 4/7/1979       | 5:03 4/10/1979   | 14:44             | 81.68      | 1040        |  |
| 521       | 188    | Oak Creek #8 |     |     | PO         | 4/21/1979      | 5:15 6/14/1979   | 10:10             | 1300.91    | 1999        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 6/21/1979      | 23:10 6/21/1979  | 23:32             | 0.36       | 9900        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/18/1979      | 5:16 7/19/1979   | 15:28             | 34.2       | 1799        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/31/1979      | 17:37 8/1/1979   | 5:37              | 12         | 1100        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/16/1979      | 15:35 8/17/1979  | 8:17              | 16.7       | 8325        |  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event | Duration in hours | Cause Code | Description |  |
|-----------|--------|--------------|-----|-----|------------|-----------------|--------------|-------------------|------------|-------------|--|
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/27/1979 15:38 | 8/30/1979    | 8:48              | 65.16      | 920         |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/4/1979 18:10  | 9/6/1979     | 8:00              | 37.83      | 1060        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/6/1979 8:00   | 9/10/1979    | 15:59             | 103.98     | 1455        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/21/1979 23:48 | 9/24/1979    | 4:25              | 52.61      | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/28/1979 22:44 | 10/1/1979    | 4:03              | 53.31      | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 11/22/1979 5:08 | 11/26/1979   | 2:20              | 93.2       | 1060        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 12/1/1979 21:23 | 12/1/1979    | 21:43             | 0.33       | 1799        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 12/14/1979 0:25 | 12/25/1979   | 13:09             | 276.73     | 1040        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/5/1980 22:53  | 1/7/1980     | 6:26              | 31.55      | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/19/1980 22:52 | 1/21/1980    | 0:38              | 25.76      | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/29/1980 22:19 | 1/31/1980    | 7:27              | 33.13      | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 2/2/1980 23:40  | 2/3/1980     | 17:56             | 18.26      | 1799        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 2/9/1980 0:48   | 2/11/1980    | 7:25              | 54.61      | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 2/22/1980 22:17 | 2/25/1980    | 9:48              | 59.51      | 1000        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/1/1980 21:42  | 3/2/1980     | 7:10              | 9.46       | 8560        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/5/1980 1:47   | 3/6/1980     | 8:57              | 31.16      | 1060        |  |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 4/3/1980 23:44  | 4/13/1980    | 12:47             | 229.05     | 1486        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 4/19/1980 0:49  | 4/19/1980    | 7:22              | 6.55       | 3110        |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 4/28/1980 16:06 | 4/30/1980    | 3:53              | 35.78      | 1060        |  |



| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event    | Duration in hours | Cause Code | Description |
|-----------|--------|--------------|-----|-----|------------|------------------|-----------------|-------------------|------------|-------------|
| 521       | 188    | Oak Creek #8 |     |     | U1         | 4/30/1980 6:23   | 4/30/1980 6:45  | 0.36              | 9900       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/5/1980 0:42    | 5/7/1980 10:35  | 57.88             | 1040       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/7/1980 13:36   | 5/8/1980 23:42  | 34.09             | 1060       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/25/1980 3:00   | 5/26/1980 17:41 | 38.68             | 3440       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 6/7/1980 23:46   | 6/8/1980 6:17   | 6.51              | 8325       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 6/30/1980 14:11  | 7/2/1980 3:43   | 37.53             | 1060       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/2/1980 3:47    | 7/2/1980 6:01   | 2.23              | 4750       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/13/1980 0:46   | 7/14/1980 5:16  | 28.5              | 1060       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/15/1980 15:16  | 7/17/1980 23:41 | 56.41             | 1040       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/19/1980 8:28   | 7/21/1980 0:14  | 39.76             | 1060       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/22/1980 18:35  | 7/25/1980 1:23  | 54.8              | 1060       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/1/1980 16:50   | 8/4/1980 7:05   | 62.25             | 1060       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/10/1980 23:49  | 8/13/1980 4:29  | 52.66             | 1060       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/25/1980 23:40  | 8/28/1980 4:15  | 52.58             | 1000       |             |
| 521       | 188    | Oak Creek #8 |     |     | PO         | 8/30/1980 4:19   | 10/18/1980 0:53 | 1172.56           | 1999       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 10/21/1980 17:41 | 10/23/1980 5:54 | 36.21             | 1000       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 12/3/1980 10:48  | 12/4/1980 4:48  | 18                | 1850       |             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 12/11/1980 0:14  | 12/12/1980 6:12 | 29.96             | 1400       |             |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 12/14/1980 2:10  | 12/14/1980 2:36 | 0.43              | 4309       |             |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |      |  |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|------|--|
| 521       | 188    | Oak Creek #8 |     |     | U1         | 12/15/1990     | 20:17        | 12/17/1980        | 0:28       | 28.18       | 1040 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/9/1981       | 23:20        | 1/11/1981         | 12:38      | 37.3        | 1000 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/13/1981      | 18:39        | 1/16/1981         | 3:08       | 56.48       | 1040 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/18/1981      | 22:16        | 1/21/1981         | 20:38      | 70.36       | 1040 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/27/1981      | 16:26        | 1/31/1981         | 5:10       | 84.73       | 1400 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/7/1981       | 2:41         | 3/8/1981          | 6:00       | 27.31       | 8560 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/8/1981       | 6:00         | 3/10/1981         | 1:25       | 43.41       | 1455 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/12/1981      | 8:00         | 3/12/1981         | 18:37      | 10.61       | 3999 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/14/1981      | 23:26        | 3/15/1981         | 21:38      | 22.2        | 1000 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/30/1981      | 22:38        | 4/1/1981          | 12:57      | 38.31       | 1040 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/18/1981      | 9:47         | 5/21/1981         | 4:01       | 66.23       | 1040 |  |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 6/6/1981       | 23:49        | 6/7/1981          | 9:45       | 9.93        | 8580 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 6/19/1981      | 22:34        | 6/21/1981         | 2:31       | 27.95       | 1040 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 6/21/1981      | 3:31         | 6/21/1981         | 7:31       | 4           | 380  |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 6/29/1981      | 23:15        | 7/1/1981          | 7:00       | 31.75       | 1060 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/21/1981      | 16:15        | 7/27/1981         | 13:09      | 140.89      | 1040 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/7/1981       | 5:57         | 8/9/1981          | 7:03       | 49.1        | 1040 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 8/24/1981      | 0:44         | 8/26/1981         | 13:50      | 61.1        | 1060 |  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/9/1981       | 1:32         | 9/11/1981         | 20:17      | 66.75       | 1000 |  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |   |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|---|
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/14/1981      | 9/15/1981    | 2:37              | 26.05      | 1060        |   |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/19/1981      | 9/19/1981    | 6:32              | 6.23       | 3110        |   |
| 521       | 188    | Oak Creek #8 |     |     | PO         | 9/26/1981      | 11/10/1981   | 11:44             | 1088.78    | 1999        |   |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 11/10/1981     | 11/10/1981   | 22:54             | 8.03       | 340         |   |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 11/21/1981     | 11/23/1981   | 4:05              | 38.88      | 1000        |   |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 12/2/1981      | 12/7/1981    | 9:56              | 107.16     | 1000        |   |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 12/11/1981     | 12/11/1981   | 22:10             | 1.3        | 1455        |   |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 12/11/1981     | 12/12/1981   | 1:22              | 2.66       | 740         |   |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/4/1982       | 1/6/1982     | 8:03              | 45.73      | 4261        | 2-Control Valve, Repair Crosshead                       |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/10/1982      | 1/10/1982    | 20:15             | 13.98      | 3414        | BBP Diff Pres Instr, Instrument Froze Up                |
| 521       | 188    | Oak Creek #8 |     |     | U2         | 1/31/1982      | 2/4/1982     | 5:01              | 79.53      | 1060        | Elev 121 So. Fractured Weld on Reheat Pendant Tube      |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 2/9/1982       | 2/10/1982    | 2:27              | 25.9       | 1050        | Boiler Superheater, Leak Superheat Outlet Tube in Attic |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 3/26/1982      | 3/28/1982    | 1:28              | 25.51      | 1590        | Make Necessary Repairs to Stack Cap                     |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 4/27/1982      | 4/30/1982    | 18:54             | 67.06      | 1040        | Boiler, Repair Superheat Leak                           |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/9/1982       | 5/11/1982    | 1:48              | 34.95      | 1080        | Repair Leaking Economizer Tubes                         |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/12/1982      | 5/16/1982    | 16:08             | 102.36     | 1050        | Superheat Tube Rupture                                  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/19/1982      | 5/20/1982    | 4:33              | 9.73       | 8560        | Precipitator, Remove Downed Wire                        |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 6/16/1982      | 6/16/1982    | 14:20             | 6.68       | 380         | Unit Tripped, Oil Torch Failure                         |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/2/1982       | 7/5/1982     | 6:32              | 55.53      | 1080        | Boiler, Leak in Economizer                              |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Event Start of   | Event End of     | Duration in hours | Cause Code | Description   |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|---|
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/9/1982 11:22   | 7/10/1982 22:41  | 35.31             | 1040       | Repair Ruptured Superheat Pendant Tube                                  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/16/1982 1:04   | 7/16/1982 3:12   | 2.13              | 310        | Boiler, Unit Tripped because of Mills Plugged with Wet Coal             |
| 521       | 188    | Oak Creek #8 |     |     | U2         | 7/16/1982 18:01  | 7/17/1982 5:09   | 11.13             | 8560       | Electrostatic Precip, Remove Broken Wire to Clear Grounded North Center |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/4/1982 16:22   | 9/27/1982 2:09   | 537.78            | 1040       | Ruptured Superheater Pendant  |
| 521       | 188    | Oak Creek #8 |     |     | U3         | 9/27/1982 21:15  | 9/28/1982 11:54  | 14.65             | 1470       | Balance ID Fan  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 10/15/1982 23:25 | 10/17/1982 1:14  | 25.81             | 1060       | Repair Reheater Tube Leak   |
| 521       | 188    | Oak Creek #8 |     |     | U2         | 10/17/1982 1:22  | 10/17/1982 2:45  | 1.38              | 4281       | Turbine Oil Cooler Trouble  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 11/9/1982 22:43  | 11/10/1982 23:21 | 24.63             | 1000       | Boiler, Repair Water Wall Leak  |
| 521       | 188    | Oak Creek #8 |     |     | U2         | 12/8/1982 12:59  | 12/9/1982 3:00   | 14.01             | 1040       | Convection Superheat Leak in Attic.                                     |
| 521       | 188    | Oak Creek #8 |     |     | PO         | 1/1/1983 1:02    | 3/14/1983 7:00   | 1733.96           | 4400       | Annual Outage for Turbine and Boiler                                    |
| 521       | 188    | Oak Creek #8 |     |     | SE         | 3/14/1983 7:00   | 3/17/1983 8:25   | 73.41             | 380        | Startup Check out of Computer for Boiler Flame Guard System             |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 3/18/1983 7:45   | 3/18/1983 8:34   | 0.81              | 4460       | Ran Overspeed Test - Reset Gov Hi Speed Stop                            |
| 521       | 188    | Oak Creek #8 |     |     | U2         | 3/19/1983 5:18   | 3/19/1983 10:40  | 5.36              | 380        | Repairs to Ignition System Controls                                     |
| 521       | 188    | Oak Creek #8 |     |     | U2         | 3/31/1983 20:31  | 4/3/1983 6:05    | 57.56             | 1060       | Repair Reheat Leak on Front Wall  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 4/3/1983 18:24   | 4/3/1983 18:54   | 0.5               | 740        | Unit Trip on Boiler Booster Pump Differential Pressure                  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 4/3/1983 16:34   | 4/3/1983 18:08   | 1.56              | 380        | Repairs to FSSS Control System  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 4/17/1983 3:44   | 4/23/1983 20:52  | 161.13            | 4261       | Repair #2 Inlet Control Valve on Turbine                                |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 4/29/1983 22:05  | 5/3/1983 5:09    | 79.06             | 1510       | Repair #4 Stack Breeching Seals   |
| 521       | 188    | Oak Creek #8 |     |     | U3         | 5/14/1983 23:06  | 5/15/1983 6:56   | 7.83              | 8560       | Remove Ground from 8B3 Precipitator Field                               |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description   |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|---|
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/17/1983 22:21  | 5/18/1983 4:38   | 6.28              | 8560       | Precipitator Field Ground                           |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 6/4/1983 12:31   | 6/6/1983 17:28   | 52.95             | 1005       | Ruptured Steam Generating Tube Elev 121             |
| 521       | 188    | Oak Creek #8 |     |     | U2         | 6/12/1983 14:57  | 6/15/1983 8:25   | 65.46             | 1050       | Boiler Forced Outage Superheat Platen Assembly Leak |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 7/14/1983 7:32   | 7/17/1983 3:54   | 68.36             | 1050       | Ruptured Superheat Tube                             |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 7/18/1983 19:28  | 7/20/1983 11:40  | 40.2              | 1050       | Boiler Superheat Platen Assembly Tube Leak          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 7/28/1983 4:55   | 7/31/1983 4:49   | 71.9              | 1005       | Repair Front Water Wall Tube Leak                   |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 8/1/1983 22:50   | 8/7/1983 6:24    | 127.56            | 1040       | Repair Superheat Leak Elev 121 South                |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 8/19/1983 11:05  | 8/22/1983 1:37   | 62.53             | 1170       | Superheat Pendant Tore Apart                        |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 8/28/1983 16:55  | 9/2/1983 8:27    | 111.53            | 1005       | Water Wall Leak                                     |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/8/1983 14:53   | 9/11/1983 21:09  | 78.26             | 1040       | Leak in #2 Superheat Division Wall                  |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/18/1983 13:00  | 9/20/1983 9:44   | 44.73             | 1140       | Superheat Pendant Tube Rupture                      |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/21/1983 13:04  | 9/26/1983 1:20   | 108.26            | 1005       | Water Tube Leak                                     |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 10/7/1983 16:13  | 10/11/1983 7:00  | 86.78             | 1090       | Repair Water and Steam Tube Leaks                   |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 10/11/1983 7:00  | 10/12/1983 5:30  | 22.5              | 4720       | Generator Locked Out before Synchronizing           |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 10/12/1983 5:31  | 10/12/1983 14:34 | 9.05              | 4810       | Low Oil on B Phase Bushing on Oil Circuit Breaker   |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 10/20/1983 21:35 | 10/26/1983 12:30 | 134.91            | 1005       | Water Tube Leak Boiler Out for Repair               |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/5/1983 21:40  | 11/6/1983 18:18  | 20.63             | 1040       | Repair Superheat Leak                               |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/7/1983 8:44   | 11/10/1983 8:41  | 71.94             | 1040       | Repair Superheat Leak                               |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/11/1983 5:35  | 11/13/1983 18:24 | 60.81             | 1040       | Repair Superheat Leak                               |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                          |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|--------------------------------------|
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/15/1983 18:42 | 11/24/1983 22:00 | 219.3             | 1040       | Repair Superheat Leak                |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 11/24/1983 22:00 | 12/1/1983 1:00   | 171               | 1310       | Water Side Fouling Cleaning          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 12/1/1983 1:01   | 12/11/1983 17:01 | 256               | 1005       | Repair Water Tube Leaks              |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 12/12/1983 3:31  | 12/12/1983 4:29  | 0.96              | 740        | BBP Differential Trip During Testing |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 12/22/1983 1:53  | 12/23/1983 6:45  | 28.86             | 1040       | Superheat Leak                       |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 12/23/1983 6:46  | 12/23/1983 11:48 | 5.03              | 4250       | High VB on B Low Press Turb          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 12/27/1983 3:00  | 12/28/1983 3:09  | 24.15             | 1040       | Superheat Leak                       |
| 521       | 188    | Oak Creek #8 |     |     | U2         | 2/3/1984 22:28   | 2/4/1984 19:31   | 21.05             | 1160       | First Reheater Deslagging            |
| 521       | 188    | Oak Creek #8 |     |     | PO         | 3/2/1984 21:49   | 3/2/1984 22:27   | 0.63              | 4460       | Turbine Overspeed Trip Test          |
| 521       | 188    | Oak Creek #8 |     |     | PO         | 3/2/1984 23:32   | 4/12/1984 19:52  | 980.33            | 1800       | Annual Outage                        |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 4/14/1984 14:54  | 4/14/1984 17:26  | 2.53              | 1710       | Control Problems - FSSS Sys          |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 4/19/1984 21:02  | 4/20/1984 0:30   | 3.46              | 4261       | Control Valves                       |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 4/20/1984 0:30   | 4/21/1984 1:18   | 24.8              | 800        | Drum Relief Safety Valves            |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 4/21/1984 10:51  | 4/21/1984 10:59  | 0.13              | 1710       | Combustion Controls                  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/8/1984 0:19    | 5/10/1984 18:30  | 66.18             | 1000       | Furnace Water Wall Leak              |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/10/1984 18:30  | 5/10/1984 20:00  | 1.5               | 580        | Light Off System                     |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/10/1984 20:00  | 5/11/1984 1:13   | 5.21              | 1000       | Furnace Water Wall Leak              |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/12/1984 8:06   | 5/12/1984 23:21  | 15.25             | 4570       | Generator Casing                     |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 5/12/1984 23:24  | 5/12/1984 23:35  | 0.18              | 9900       | Operator Error                       |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |      |                               |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|------|-------------------------------|
| 521       | 188    | Oak Creek #8 |     |     | U1         | 6/15/1984      | 16:55        | 6/17/1984         | 20:39      | 51.73       | 1005 | Gen Tube                      |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 6/22/1984      | 23:30        | 6/23/1984         | 8:12       | 8.7         | 8560 | Electrostatic Precip Problems |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 8/29/1984      | 3:31         | 9/1/1984          | 10:45      | 79.23       | 1040 | First Suphtr Tube Leak        |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 9/1/1984       | 10:45        | 9/2/1984          | 16:01      | 29.26       | 3680 | Other Voltage Transformer     |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/2/1984       | 16:48        | 9/2/1984          | 22:12      | 5.4         | 890  | Bottom Ash System             |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/7/1984       | 18:18        | 9/10/1984         | 2:53       | 56.58       | 1050 | Second Superheater            |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 9/20/1984      | 17:10        | 9/23/1984         | 10:51      | 65.68       | 1005 | Generating Tubes              |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/28/1984      | 21:12        | 9/30/1984         | 6:55       | 33.71       | 1005 | Generating Tube               |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/30/1984      | 6:55         | 9/30/1984         | 8:05       | 1.16        | 3414 | Fdwtr Pump Local Controls     |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/30/1984      | 8:05         | 9/30/1984         | 10:32      | 2.45        | 3414 | Generating Tube               |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 10/12/1984     | 16:40        | 10/17/1984        | 6:46       | 110.1       | 3413 | Generating Tube Leak          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 10/26/1984     | 14:16        | 10/29/1984        | 1:39       | 59.38       | 3414 | Generating Tube               |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/10/1984     | 18:59        | 11/18/1984        | 0:25       | 173.43      | 3414 | Generating Tube               |
| 521       | 188    | Oak Creek #8 | *   |     | SF         | 11/18/1984     | 0:25         | 11/18/1984        | 5:00       | 4.58        | 8560 | Electrostatic Precip Problem  |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/18/1984     | 5:00         | 11/18/1984        | 16:12      | 11.2        | 3414 | Generating Tube               |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/18/1984     | 17:56        | 11/18/1984        | 18:39      | 0.71        | 9900 | Operator Error                |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 12/21/1984     | 9:57         | 12/23/1984        | 9:17       | 47.33       | 1150 | Second Superheater            |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 12/23/1984     | 9:17         | 12/23/1984        | 12:12      | 2.91        | 1150 | Second Superheater            |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/9/1985       | 5:38         | 1/12/1985         | 2:18       | 68.66       | 1050 | Second Superheater            |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event    | Duration in hours | Cause Code | Description                      |
|-----------|--------|--------------|-----|-----|------------|-----------------|-----------------|-------------------|------------|----------------------------------|
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/19/1985 20:44 | 1/19/1985 21:29 | 0.75              | 770        | Froz Sensing Blr Cir Pmp         |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/19/1985 21:42 | 1/20/1985 0:38  | 2.93              | 9900       | Operator Error - Lost Excitation |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/20/1985 3:45  | 1/20/1985 4:07  | 0.36              | 770        | Froz Sensing Blr Cir Pmp         |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/20/1985 4:15  | 1/20/1985 7:37  | 3.36              | 9900       | Operator Error - Lo Wtr Level    |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/20/1985 20:24 | 1/20/1985 22:24 | 2                 | 4630       | Stator Cooling Sens Line Frozen  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/25/1985 17:35 | 1/29/1985 1:37  | 80.03             | 1005       | Generating Tube                  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 2/7/1985 23:48  | 2/10/1985 13:58 | 62.16             | 1040       | Superheat Pendant                |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 3/22/1985 16:46 | 3/24/1985 21:41 | 52.91             | 1005       | Generating Tube                  |
| 521       | 188    | Oak Creek #8 |     |     | PO         | 4/12/1985 18:06 | 7/5/1985 20:20  | 2018.23           | 1800       | Annual Outage                    |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/6/1985 0:47   | 7/6/1985 1:29   | 0.7               | 4261       | Control Valve Problem            |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/6/1985 2:20   | 7/6/1985 5:18   | 2.96              | 740        | 82 Boiler Booster Pump Trip      |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/7/1985 18:05  | 7/10/1985 3:20  | 57.25             | 1005       | Generating Tube                  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/13/1985 21:32 | 7/15/1985 9:15  | 35.71             | 1080       | Economizer                       |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 7/15/1985 9:16  | 7/17/1985 1:42  | 40.43             | 3644       | Protection Devices               |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 8/10/1985 22:26 | 8/19/1985 23:18 | 216.86            | 4261       | Control Valves                   |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 8/30/1985 23:27 | 8/31/1985 23:00 | 23.55             | 4240       | Bearings                         |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/9/1985 18:57  | 9/13/1985 7:30  | 84.55             | 1005       | Generating Tube Leak             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/13/1985 7:31  | 9/13/1985 13:49 | 6.3               | 4302       | Turbine Trip Devices             |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/27/1985 18:03 | 9/29/1985 19:40 | 49.61             | 1070       | Second Reheater                  |



| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event    | Duration in hours | Cause Code | Description                     |
|-----------|--------|--------------|-----|-----|------------|------------------|-----------------|-------------------|------------|---------------------------------|
| 521       | 188    | Oak Creek #8 |     |     | U1         | 9/29/1985 19:41  | 9/30/1985 6:59  | 11.3              | 1799       | Boiler Controls                 |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 10/2/1985 14:04  | 10/2/1985 21:00 | 6.93              | 8560       | Electrostatic Precip Problems   |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 10/11/1985 22:07 | 10/12/1985 3:39 | 5.53              | 1710       | Combustion Controls FSSS        |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 11/3/1985 22:13  | 11/5/1985 10:20 | 36.11             | 1070       | Second Reheater                 |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 1/7/1986 21:02   | 1/9/1986 12:00  | 38.96             | 1070       | Reheat Leak                     |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 1/9/1986 12:00   | 1/10/1986 9:00  | 21                | 890        | Bottom Ash System               |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 1/10/1986 9:00   | 1/10/1986 19:26 | 10.43             | 1440       | Air Supply Dampers              |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 1/11/1986 10:31  | 1/12/1986 15:01 | 28.5              | 1710       | Combustion Controls FSSS        |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 2/13/1986 8:42   | 2/13/1986 11:30 | 2.8               | 770        | Other Blr Recirculation Problem |
| 521       | 188    | Oak Creek #8 |     |     | SF         | 2/13/1986 11:30  | 2/16/1986 14:58 | 75.46             | 3440       | Hi Press Feedwater Heater       |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/7/1986 5:56    | 3/9/1986 10:40  | 52.73             | 1005       | Generating Tube                 |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/22/1986 0:12   | 3/22/1986 1:35  | 1.38              | 9900       | Operator Error                  |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 3/22/1986 5:17   | 5/3/1986 12:51  | 1015.56           | 1800       | Annual Outage                   |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 5/3/1986 19:17   | 5/4/1986 15:30  | 20.21             | 4261       | Set Control Valves              |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 5/9/1986 23:58   | 5/10/1986 23:56 | 23.96             | 4030       | Balance Turbine                 |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/4/1986 13:15   | 6/7/1986 18:41  | 77.43             | 1005       | Generating Tube                 |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/19/1986 14:28  | 6/19/1986 15:27 | 0.98              | 1799       | BBP Diff Press Low Trip         |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 6/20/1986 19:21  | 6/23/1986 0:50  | 53.48             | 1040       | Superheat Leak                  |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 6/23/1986 22:16  | 6/25/1986 22:13 | 47.95             | 1040       | Superheat Leak                  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event     | End of Event       | Duration in hours | Cause Code | Description                   |
|-----------|--------|--------------|-----|-----|------------|--------------------|--------------------|-------------------|------------|-------------------------------|
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 7/15/1986 12:15    | 7/18/1986 9:39     | 69.4              | 1005       | Generating Tube               |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 7/30/1986 3:46     | 7/31/1986 4:37     | 24.85             | 1005       | Generating Tube               |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 8/3/1986 4:21      | 8/4/1986 10:39     | 30.3              | 1005       | Generating Tube               |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 8/15/1986 20:13    | 8/21/1986 8:01     | 131.8             | 1005       | Generating Tube Leak          |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 9/5/1986 23:38     | 9/6/1986 18:42     | 19.06             | 4281       | #81 Lube Oil Cooler           |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/18/1986 1:55     | 9/20/1986 9:25     | 55.5              | 1070       | Second Reheater               |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/25/1986 14:44    | 9/25/1986 16:34    | 1.83              | 250        | Pulverizer Feeder Problems    |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 10/17/1986 10:07   | 10/20/1986 4:06    | 65.98             | 1005       | Generating Tube               |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 10/30/1986 21:38   | 10/31/1986 11:31   | 13.88             | 8560       | Precipitator Wire Ground      |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 12/15/1986 11:21   | 12/15/1986 12:01   | 0.66              | 9910       | Maintenance Error             |
| 521       | 188    | Oak Creek #8 |     |     | U3         | 1/16/1987 21:17    | 1/17/1987 18:44    | 21.45             | 1005       | Generating Tube               |
| 521       | 188    | Oak Creek #8 |     |     | PO         | 2/7/1987 2:53      | 3/20/1987 24:00:00 | 1005.11           | 1800       | Annual Outage                 |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/20/1987 24:00:00 | 3/21/1987 12:45    | 12.75             | 4520       | Stator Cooling System         |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/22/1987 5:02     | 3/22/1987 11:53    | 6.85              | 4302       | Hydraulic Oil Problem         |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/23/1987 19:34    | 3/23/1987 20:05    | 0.51              | 410        | Burner Problems               |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 3/23/1987 21:53    | 3/25/1987 7:41     | 33.8              | 8560       | Electrostatic Precip Problems |
| 521       | 188    | Oak Creek #8 |     |     | PO         | 3/29/1987 2:36     | 3/29/1987 4:43     | 2.11              | 4460       | Turb Overspeed Trip Test      |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 4/3/1987 21:59     | 4/5/1987 22:01     | 48.03             | 8560       | Electrostatic Precip Problems |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 4/21/1987 0:41     | 4/24/1987 6:00     | 77.31             | 4264       | Combined Intercept Vlvs       |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description                        |
|-----------|--------|--------------|-----|-----|------------|----------------|------------------|-------------------|------------|------------------------------------|
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 4/24/1987      | 6:00 4/25/1987   | 5:44              | 23.73      | 1130 Repl Slag Wear Strips         |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 6/15/1987      | 0:29 6/16/1987   | 17:57             | 41.46      | 1040 Superheat Leak                |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 7/2/1987       | 20:17 7/3/1987   | 4:17              | 8          | 8560 Electrostatic Precip Problems |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 7/7/1987       | 0:09 7/8/1987    | 12:02             | 35.88      | 1050 Second Superheater            |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 8/2/1987       | 5:38 8/3/1987    | 4:14              | 22.6       | 1005 Generating Tube               |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 8/8/1987       | 2:25 8/10/1987   | 3:35              | 49.16      | 8550 Electrostatic Precip Fouling  |
| 521       | 188    | Oak Creek #8 | *   |     | U3         | 9/2/1987       | 22:09 9/3/1987   | 12:00             | 13.85      | 8550 Precipitator Fouling          |
| 521       | 188    | Oak Creek #8 |     |     | U2         | 10/6/1987      | 22:09 10/8/1987  | 10:05             | 35.93      | 1050 Second Superheater Tube Leak  |
| 521       | 188    | Oak Creek #8 |     |     | SF         | 10/8/1987      | 10:05 10/8/1987  | 14:48             | 4.71       | 4420 Hi Vibration 2 Brg            |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 10/10/1987     | 19:58 10/11/1987 | 17:57             | 21.98      | 8550 Electrostatic Precip Fouling  |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 10/14/1987     | 4:24 10/14/1987  | 4:55              | 0.51       | 9910 Maintenance Error             |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 11/1/1987      | 7:56 11/4/1987   | 21:59             | 86.05      | 4261 Control Valves                |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 11/13/1987     | 21:39 11/15/1987 | 9:29              | 35.83      | 1005 Generating Tube               |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 11/25/1987     | 9:56 11/29/1987  | 24:00:00          | 110.06     | 1005 Generating Tube               |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 11/30/1987     | 20:08 12/1/1987  | 21:26             | 49.3       | 8580 Mechanical Precip Problems    |
| 521       | 188    | Oak Creek #8 |     |     | U2         | 12/3/1987      | 0:32 12/4/1987   | 2:42              | 26.16      | 1070 Second Reheater Tube          |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 1/3/1988       | 0:01 5/16/1988   | 21:52             | 3213.85    | 4400 Annual Outage                 |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 5/16/1988      | 21:54 5/17/1988  | 4:37              | 6.71       | 4420 High Vibration                |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 5/17/1988      | 4:57 5/17/1988   | 13:35             | 8.63       | 4420 High Vibration                |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event    | Duration in hours | Cause Code | Description                    |
|-----------|--------|--------------|-----|-----|------------|-----------------|-----------------|-------------------|------------|--------------------------------|
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 5/18/1988 11:27 | 5/19/1988 8:48  | 21.35             | 1999       | Boiler Feed Problems           |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 5/20/1988 1:22  | 5/20/1988 3:16  | 1.9               | 4400       | Annual Outage                  |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 5/21/1988 23:25 | 5/22/1988 14:21 | 14.93             | 8560       | Electrostatic Precip Problems  |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 6/8/1988 18:04  | 6/12/1988 20:35 | 98.51             | 4260       | Main Stop Vlvs Steam Strainers |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 7/23/1988 20:31 | 7/24/1988 5:31  | 9                 | 8560       | Precip Wire Ground             |
| 521       | 188    | Oak Creek #8 |     |     | PO         | 8/6/1988 22:09  | 8/7/1988 6:30   | 8.35              | 8560       | Precipitator Wire Ground       |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 8/19/1988 15:53 | 8/20/1988 21:35 | 29.7              | 740        | Blr Recirculation Pumps        |
| 521       | 188    | Oak Creek #8 |     |     | MO         | 9/15/1988 9:31  | 9/16/1988 22:16 | 36.75             | 1005       | Generating Tube                |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 11/6/1988 3:15  | 11/6/1988 20:29 | 17.23             | 1510       | Flue Gas Ducts                 |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 12/1/1988 23:48 | 12/4/1988 21:05 | 69.28             | 1510       | Flue Gas Ducts                 |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 12/6/1988 19:58 | 12/7/1988 7:53  | 11.91             | 8560       | Precipitator Problems          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 1/11/1989 19:40 | 1/14/1989 23:00 | 75.33             | 1050       | Superheat Pendant Failure      |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 2/7/1989 8:43   | 2/7/1989 10:08  | 1.41              | 1480       | Other ID Fan Problems          |
| 521       | 188    | Oak Creek #8 |     |     | U1         | 3/13/1989 15:44 | 3/13/1989 16:43 | 0.98              | 4560       | Generator Vibration            |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 3/14/1989 14:53 | 3/14/1989 15:30 | 0.61              | 4560       | Generator Vibration            |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 4/16/1989 0:51  | 4/16/1989 9:24  | 8.55              | 8560       | Precip Grounds                 |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 5/6/1989 23:46  | 5/7/1989 12:24  | 12.63             | 8560       | Precipitaor Problem            |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 5/30/1989 11:30 | 5/31/1989 6:21  | 18.85             | 1005       | Generating Tube                |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 6/16/1989 18:38 | 6/29/1989 18:12 | 311.56            | 1800       | Annual Outage                  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                    |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|--------------------------------|
| 521       | 188    | Oak Creek #8 | *   |     | SF         | 7/2/1989 7:59    | 7/2/1989 12:43   | 4.73              | 4040       | Turbine Brgs                   |
| 521       | 188    | Oak Creek #8 | *   |     | SF         | 11/5/1989 19:58  | 11/5/1989 20:18  | 0.33              | 1799       | Other Control Problems         |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 11/18/1989 20:05 | 11/20/1989 22:14 | 50.15             | 740        | 83 Blr Circ Pmp Mtr Fail       |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 4/20/1990 20:49  | 4/29/1990 9:56   | 205.11            | 1800       | Planned Maintenance Outage     |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 5/4/1990 23:55   | 5/7/1990 4:14    | 52.31             | 1150       | Second Superheater             |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 5/11/1990 22:15  | 5/13/1990 17:15  | 43                | 1090       | Wrapper Tube Leak              |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 5/15/1990 6:18   | 5/15/1990 10:26  | 4.13              | 1799       | Other Control Problems         |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 5/22/1990 15:26  | 5/23/1990 13:16  | 21.83             | 1080       | Economizer Leak                |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/7/1990 23:50   | 9/9/1990 22:23   | 46.55             | 3861       | Fire Protection Sys Piping     |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 2/23/1991 2:56   | 6/12/1991 13:35  | 2626.65           | 1800       | Planned Maintenance Outage     |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 6/12/1991 13:55  | 6/12/1991 20:19  | 6.4               | 4240       | Bearings                       |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 6/12/1991 21:03  | 6/12/1991 22:30  | 1.45              | 4240       | Bearings                       |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 6/13/1991 3:36   | 6/13/1991 10:17  | 6.68              | 480        | Other Oil Fuel Supply Problems |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 6/13/1991 17:51  | 6/13/1991 18:35  | 0.73              | 4240       | Bearings                       |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 6/14/1991 1:30   | 6/16/1991 23:59  | 70.48             | 4240       | Bearings                       |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/16/1991 23:59  | 6/17/1991 2:39   | 2.66              | 4240       | Bearings                       |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/17/1991 4:48   | 6/17/1991 6:01   | 1.21              | 4240       | Bearings                       |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/17/1991 10:32  | 6/17/1991 11:08  | 0.6               | 1700       | Feedwater Controls             |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/18/1991 13:32  | 6/18/1991 16:31  | 2.98              | 4609       | Other Exciter Problems         |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description                 |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|-----------------------------|
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/18/1991 17:18  | 6/19/1991 3:11   | 9.88              | 4240       | Bearings                    |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/19/1991 3:23   | 6/19/1991 5:41   | 2.3               | 1475       | Induced Draft Fan Cont      |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/19/1991 13:18  | 6/19/1991 18:36  | 5.3               | 1470       | ID Fan Motors & Drivers     |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 6/21/1991 21:39  | 6/21/1991 22:30  | 0.85              | 4460       | Turbine Overspeed Trip Test |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/21/1991 23:08  | 6/22/1991 8:58   | 9.83              | 4240       | Bearings                    |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 6/24/1991 16:28  | 6/24/1991 23:15  | 6.78              | 4261       | Control Valves              |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/25/1991 13:50  | 6/25/1991 14:32  | 0.7               | 1470       | ID Fan Motors & Drivers     |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/25/1991 15:23  | 6/25/1991 21:41  | 6.3               | 1415       | FD Fan Controls             |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 7/9/1991 7:14    | 7/9/1991 7:56    | 0.7               | 4240       | Bearings                    |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 7/17/1991 8:54   | 7/17/1991 9:34   | 0.66              | 1710       | Combustion Control          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 8/13/1991 10:28  | 8/13/1991 11:15  | 0.78              | 1710       | Combustion Control          |
| 521       | 188    | Oak Creek #8 | *   |     | SF         | 9/6/1991 6:30    | 9/6/1991 7:46    | 1.26              | 1710       | Combustion Controls         |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/18/1991 2:50   | 9/18/1991 3:34   | 0.73              | 1710       | Combustion Controls         |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/20/1991 2:10   | 9/20/1991 2:48   | 0.63              | 4260       | Main Stop Valves            |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 10/1/1991 23:59  | 10/2/1991 0:53   | 0.9               | 1710       | Combustion Controls         |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 10/2/1991 6:13   | 10/2/1991 7:05   | 0.86              | 1710       | Combustion Controls         |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 10/14/1991 8:39  | 10/14/1991 9:31  | 0.86              | 9910       | Maintenance Error           |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 10/14/1991 9:42  | 10/14/1991 10:26 | 0.73              | 4240       | Bearings                    |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 10/14/1991 10:39 | 10/14/1991 13:56 | 3.28              | 4240       | Bearings                    |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event   | End of Event     | Duration in hours | Cause Code | Description               |
|-----------|--------|--------------|-----|-----|------------|------------------|------------------|-------------------|------------|---------------------------|
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/1/1991 13:41  | 11/1/1991 19:33  | 5.86              | 3112       | Condenser Tube Fouling    |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/5/1991 0:05   | 11/5/1991 1:21   | 1.26              | 1710       | Combustion Controls       |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/21/1991 11:27 | 11/21/1991 12:46 | 1.31              | 1710       | Combustion Controls       |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 12/14/1991 10:52 | 12/14/1991 13:52 | 3                 | 1710       | Combustion Controls       |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 3/2/1992 17:08   | 3/2/1992 21:07   | 3.98              | 3112       | Condenser Tube Fouling    |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 3/14/1992 6:00   | 3/14/1992 12:30  | 6.5               | 1040       | First Superheater Leak    |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 3/14/1992 12:30  | 3/16/1992 0:12   | 35.7              | 265        | Primary Air Heater        |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 3/27/1992 13:30  | 3/27/1992 14:46  | 1.26              | 4240       | Bearings                  |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 5/21/1992 5:06   | 5/21/1992 5:49   | 0.71              | 310        | Pulverizer Mills          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/20/1992 13:08  | 6/20/1992 13:55  | 0.78              | 9910       | Maintenance Error         |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 7/11/1992 5:36   | 7/11/1992 6:14   | 0.63              | 4240       | Bearings                  |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 7/19/1992 11:35  | 7/19/1992 12:00  | 0.41              | 3414       | Feedwater Pump Controls   |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 8/30/1992 10:52  | 8/30/1992 12:01  | 1.15              | 1710       | Combustion Controls       |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 10/15/1992 15:45 | 10/15/1992 16:45 | 1                 | 1710       | Combustion Controls       |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/20/1992 2:38  | 11/20/1992 3:58  | 1.33              | 340        | Other Pulverizer Problems |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/20/1992 5:12  | 11/20/1992 6:00  | 0.8               | 340        | Other Pulverizer Problems |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 11/25/1992 13:58 | 11/26/1992 5:15  | 15.28             | 4430       | Gland Seal System         |
| 521       | 188    | Oak Creek #8 | *   |     | SF         | 11/27/1992 5:00  | 11/27/1992 10:31 | 5.51              | 4040       | Turbine Bearing Vibration |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/29/1992 3:17  | 11/29/1992 4:43  | 1.43              | 410        | Other Burner Problems     |

| Utility # | Unit # | Unit Name    | GAC  | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |      |                                   |
|-----------|--------|--------------|------|-----|------------|----------------|--------------|-------------------|------------|-------------|------|-----------------------------------|
| 521       | 188    | Oak Creek #8 | 000* | *   | PO         | 1/3/1993       | 0:01         | 2/13/1993         | 13:48      | 997.78      | 1800 | Planned Maintenance Outage        |
| 521       | 188    | Oak Creek #8 | 000* | *   | PO         | 2/14/1993      | 1:48         | 2/14/1993         | 3:00       | 1.2         | 1710 | Combustion Controls               |
| 521       | 188    | Oak Creek #8 | *    |     | U1         | 2/24/1993      | 16:34        | 2/24/1993         | 17:00      | 0.43        | 1710 | Combustion Controls               |
| 521       | 188    | Oak Creek #8 | *    |     | SF         | 2/24/1993      | 17:00        | 2/24/1993         | 18:45      | 1.75        | 380  | Light-Off Systems                 |
| 521       | 188    | Oak Creek #8 | *    |     | MO         | 3/6/1993       | 0:49         | 3/8/1993          | 2:57       | 50.13       | 4260 | Main Stop Valves                  |
| 521       | 188    | Oak Creek #8 | *    |     | U1         | 3/13/1993      | 16:42        | 3/13/1993         | 17:46      | 1.06        | 1710 | Combustion Controls               |
| 521       | 188    | Oak Creek #8 | *    |     | U2         | 3/17/1993      | 12:03        | 3/20/1993         | 6:25       | 66.36       | 1070 | Second Reheater                   |
| 521       | 188    | Oak Creek #8 | *    |     | U1         | 3/24/1993      | 7:25         | 3/24/1993         | 8:57       | 1.53        | 1710 | Combustion Controls               |
| 521       | 188    | Oak Creek #8 | *    |     | U1         | 4/9/1993       | 12:21        | 4/9/1993          | 13:33      | 1.2         | 9270 | Wet Coal                          |
| 521       | 188    | Oak Creek #8 | *    |     | U1         | 5/26/1993      | 1:35         | 5/26/1993         | 2:30       | 0.91        | 1710 | Combustion Control                |
| 521       | 188    | Oak Creek #8 | *    |     | MO         | 6/19/1993      | 0:42         | 6/19/1993         | 6:14       | 5.53        | 1799 | Other Boiler Control Problems     |
| 521       | 188    | Oak Creek #8 | *    |     | U1         | 6/22/1993      | 1:34         | 6/22/1993         | 3:18       | 1.73        | 1710 | Combustion Control                |
| 521       | 188    | Oak Creek #8 | *    |     | U2         | 6/27/1993      | 8:58         | 6/27/1993         | 20:24      | 11.43       | 4293 | Hydraulic System Pipes & Vlvs     |
| 521       | 188    | Oak Creek #8 | *    |     | U1         | 6/27/1993      | 23:30        | 6/28/1993         | 3:44       | 4.23        | 3149 | Loss of Vacuum - Other Components |
| 521       | 188    | Oak Creek #8 | *    |     | U1         | 7/2/1993       | 12:43        | 7/2/1993          | 13:25      | 0.7         | 9900 | Operator Error                    |
| 521       | 188    | Oak Creek #8 | *    |     | U1         | 8/2/1993       | 0:07         | 8/2/1993          | 1:23       | 1.26        | 1710 | Combustion Control                |
| 521       | 188    | Oak Creek #8 | *    |     | MO         | 8/13/1993      | 23:20        | 8/16/1993         | 1:33       | 50.21       | 1005 | Generating Tube                   |
| 521       | 188    | Oak Creek #8 | *    |     | MO         | 8/20/1993      | 20:07        | 8/23/1993         | 5:00       | 56.88       | 1060 | First Reheater                    |
| 521       | 188    | Oak Creek #8 | *    |     | U2         | 9/23/1993      | 16:29        | 9/26/1993         | 2:05       | 57.6        | 1070 | Second Reheater                   |



| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event  | End of Event     | Duration in hours | Cause Code | Description                      |
|-----------|--------|--------------|-----|-----|------------|-----------------|------------------|-------------------|------------|----------------------------------|
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 10/13/1993 9:49 | 10/13/1993 11:57 | 2.13              | 3620       | Main Transformer                 |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/9/1993 0:36  | 11/9/1993 1:10   | 0.56              | 9910       | Mechanical Switching Error       |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 12/16/1993 2:38 | 12/16/1993 3:20  | 0.7               | 9910       | Maintenance Error                |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 2/7/1994 5:45   | 2/7/1994 6:35    | 0.83              | 4260       | Main Stop Valves                 |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 3/8/1994 10:41  | 3/8/1994 12:31   | 1.83              | 9910       | Maintenance Error (DC Switching) |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/12/1994 19:00 | 6/12/1994 22:04  | 3.06              | 1710       | Combustion Controls              |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/17/1994 22:16 | 6/23/1994 14:44  | 136.46            | 1005       | Generating Tube                  |
| 521       | 188    | Oak Creek #8 | *   |     | U3         | 7/1/1994 20:52  | 7/4/1994 11:58   | 63.1              | 1070       | Second Reheater                  |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 7/11/1994 15:17 | 7/11/1994 16:45  | 1.46              | 1470       | ID Fan Motors & Drivers          |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 8/5/1994 6:49   | 8/5/1994 13:48   | 6.98              | 3112       | Condenser Tube Pluggage          |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 8/19/1994 20:28 | 8/24/1994 8:51   | 108.38            | 1070       | Second Reheater                  |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 9/9/1994 22:48  | 9/13/1994 4:29   | 77.68             | 1070       | Second Reheater                  |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 9/23/1994 23:07 | 9/25/1994 18:25  | 43.3              | 1070       | Second Reheater                  |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 12/31/1994 0:01 | 12/31/1994 23:59 | 23.96             | 4400       | Turbine Overhaul                 |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 1/1/1995 0:02   | 4/13/1995 14:38  | 2462.6            | 4400       | Turbine Overhaul                 |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 4/21/1995 18:52 | 4/29/1995 7:17   | 180.41            | 4260       | Main Stop Valves                 |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 5/13/1995 4:02  | 5/16/1995 1:33   | 69.51             | 4260       | Main Stop Valves                 |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/6/1995 19:54  | 6/6/1995 20:38   | 0.73              | 1710       | Combustion Controls              |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 8/19/1995 0:29  | 8/20/1995 9:50   | 33.34             | 590        | Desuperhtr Check Valve           |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event | Duration in hours | Cause Code | Description |      |                          |
|-----------|--------|--------------|-----|-----|------------|----------------|--------------|-------------------|------------|-------------|------|--------------------------|
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/9/1995       | 19:45        | 9/9/1995          | 21:20      | 1.58        | 1710 | Combustion Controls      |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 10/7/1995      | 22:06        | 10/11/1995        | 22:00      | 95.9        | 1000 | Boiler Tube Leaks        |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 10/14/1995     | 10:46        | 10/15/1995        | 16:13      | 29.45       | 1000 | Boiler Tube Leaks        |
| 521       | 188    | Oak Creek #8 | *   |     | U3         | 11/10/1995     | 1:04         | 11/12/1995        | 16:54      | 63.83       | 1000 | Boiler Tube Leaks        |
| 521       | 188    | Oak Creek #8 | *   |     | U3         | 1/6/1996       | 0:31         | 1/7/1996          | 16:50      | 40.31       | 1000 |                          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 2/2/1996       | 4:30         | 2/2/1996          | 7:30       | 3           | 3110 |                          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 2/2/1996       | 7:30         | 2/3/1996          | 9:41       | 26.18       | 3110 | Other Oil and Gas Supply |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 2/7/1996       | 10:17        | 2/7/1996          | 11:15      | 0.96        | 3416 |                          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 2/11/1996      | 20:30        | 2/12/1996         | 19:52      | 23.36       | 1000 | nil                      |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 4/17/1996      | 14:45        | 4/17/1996         | 16:10      | 1.41        | 1710 |                          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 4/17/1996      | 16:32        | 4/17/1996         | 17:14      | 0.7         | 1710 |                          |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 5/25/1996      | 1:00         | 5/25/1996         | 18:30      | 17.5        | 750  |                          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 6/15/1996      | 22:00        | 6/19/1996         | 8:18       | 82.3        | 1005 | nil                      |
| 521       | 188    | Oak Creek #8 | *   |     | U3         | 7/10/1996      | 1:21         | 7/10/1996         | 10:58      | 9.61        | 3441 | nil                      |
| 521       | 188    | Oak Creek #8 | *   |     | U3         | 8/31/1996      | 16:07        | 9/2/1996          | 14:45      | 46.63       | 1005 |                          |
| 521       | 188    | Oak Creek #8 | *   |     | SF         | 9/2/1996       | 14:45        | 9/8/1996          | 22:12      | 151.45      | 4260 | nil                      |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/13/1996      | 5:08         | 9/13/1996         | 22:09      | 17.01       | 3112 |                          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/14/1996      | 0:46         | 9/15/1996         | 22:46      | 46          | 3112 |                          |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/23/1996      | 20:20        | 9/23/1996         | 21:48      | 1.46        | 3411 |                          |

| Utility # | Unit # | Unit Name    | GAC  | NAC  | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description |   |
|-----------|--------|--------------|------|------|------------|----------------|------------------|-------------------|------------|-------------|---|
| 521       | 188    | Oak Creek #8 | *    |      | U2         | 11/18/1996     | 21:00 11/21/1996 | 11:51             | 62.85      | 1105        |   |
| 521       | 188    | Oak Creek #8 | *    |      | PO         | 12/28/1996     | 3:05 12/31/1996  | 23:59             | 92.9       | 1800        |   |
| 521       | 188    | Oak Creek #8 | *    |      | PO         | 1/1/1997       | 0:01 1/30/1997   | 7:36              | 703.58     | 1800        | Outage started 12-28-96                                       |
| 521       | 188    | Oak Creek #8 | *    |      | U1         | 2/15/1997      | 16:30 2/16/1997  | 4:10              | 11.66      | 4450        | Water Induction to IP Turbine                                 |
| 521       | 188    | Oak Creek #8 | *    |      | U3         | 6/14/1997      | 14:40 6/16/1997  | 3:20              | 36.66      | 3110        | Repair Condenser Tube Leak                                    |
| 521       | 188    | Oak Creek #8 | *    |      | U1         | 6/20/1997      | 14:19 6/22/1997  | 14:38             | 48.31      | 1050        | Repair Superheat Tube Leak                                    |
| 521       | 188    | Oak Creek #8 | *    |      | U1         | 7/3/1997       | 18:37 7/6/1997   | 12:18             | 65.68      | 1005        | Generating Tube   |
| 521       | 188    | Oak Creek #8 | *    |      | U1         | 9/24/1997      | 20:21 9/24/1997  | 21:38             | 1.28       | 9900        | Unit Tripped due to Personnel Error                           |
| 521       | 188    | Oak Creek #8 | *    |      | MO         | 9/27/1997      | 0:37 10/4/1997   | 21:28             | 188.85     | 1050        | Boiler Tube Leak  |
| 521       | 188    | Oak Creek #8 | 00*0 | 000* | U1         | 10/5/1997      | 0:37 10/5/1997   | 11:39             | 11.03      | 3950        | Unit Tripped due to Computer Malfunction                      |
| 521       | 188    | Oak Creek #8 | *    |      | U1         | 10/6/1997      | 5:23 10/9/1997   | 22:26             | 89.05      | 876         | Sootblower Controls   |
| 521       | 188    | Oak Creek #8 | *    |      | MO         | 4/11/1998      | 5:00 4/26/1998   | 15:43             | 370.71     | 1488        | Maintenance Outage  |
| 521       | 188    | Oak Creek #8 | *    |      | U3         | 5/8/1998       | 21:30 5/10/1998  | 22:25             | 48.91      | 1000        | Repair Tube Leak at Water Wall                                |
| 521       | 188    | Oak Creek #8 | *    |      | U1         | 5/11/1998      | 8:36 5/11/1998   | 22:04             | 13.46      | 4265        | Misc Turbine Drains & Vent Vlvs                               |
| 521       | 188    | Oak Creek #8 | *    |      | MO         | 5/21/1998      | 0:26 5/23/1998   | 20:10             | 67.73      | 1000        | Furnace Wall  |
| 521       | 188    | Oak Creek #8 | *    |      | U1         | 6/24/1998      | 21:46 6/24/1998  | 23:56             | 2.16       | 3190        | Loss of Condenser Vacuum While Return 81/82 Heater Drain Pump |
| 521       | 188    | Oak Creek #8 | *    |      | U1         | 6/30/1998      | 0:20 7/6/1998    | 14:58             | 158.63     | 500         | Main Steam Piping to Turbine Stop Vlvs                        |
| 521       | 188    | Oak Creek #8 | *    |      | U1         | 7/8/1998       | 10:14 7/8/1998   | 11:23             | 1.15       | 1700        | Unit Trip - Low Drum Level                                    |
| 521       | 188    | Oak Creek #8 | *    |      | MO         | 8/1/1998       | 0:44 8/3/1998    | 5:24              | 52.66      | 799         | Repair Leak on EI 144 on Drain Line Off of Roof Inlet Header  |

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of Event | End of Event     | Duration in hours | Cause Code | Description                          |
|-----------|--------|--------------|-----|-----|------------|----------------|------------------|-------------------|------------|--------------------------------------|
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/14/1998      | 8:06 9/14/1998   | 13:25             | 5.31       | 3261 Travelling Screen Fouling       |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/15/1998      | 15:45 9/15/1998  | 19:35             | 3.83       | 3261 Travelling Screen Fouling       |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 9/19/1998      | 0:48 9/22/1998   | 11:17             | 82.48      | 8590 Other Precipitator Problems     |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 10/16/1998     | 22:08 10/18/1998 | 14:41             | 40.55      | 1000 Repair Waterwall Tube Leak      |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 12/4/1998      | 22:52 12/7/1998  | 4:34              | 53.7       | 8590 Precipitator Problem            |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 1/16/1999      | 1:27 2/8/1999    | 3:19              | 553.86     | 1800 Planned Maintenance Outage      |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 2/11/1999      | 5:57 2/13/1999   | 13:55             | 55.96      | 1030 Boiler Tube Leak                |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 3/20/1999      | 1:05 3/21/1999   | 19:08             | 42.05      | 4261 Control Valves                  |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 5/26/1999      | 12:30 5/26/1999  | 14:30             | 2          | 3261 Travelling Water Screen Fouling |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 6/4/1999       | 1:26 6/6/1999    | 2:59              | 49.55      | 872 Sootblowers - Water              |
| 521       | 188    | Oak Creek #8 | *   |     | U2         | 7/10/1999      | 8:13 7/10/1999   | 12:13             | 4          | 3261 Travelling Water Screen Fouling |
| 521       | 188    | Oak Creek #8 | *   |     | MO         | 8/7/1999       | 20:42 8/9/1999   | 1:43              | 29.01      | 892 Bottom Ash Clinker Grinder       |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 9/11/1999      | 23:39 9/12/1999  | 0:47              | 1.13       | 1710 Boiler Air Upset                |
| 521       | 188    | Oak Creek #8 | *   |     | PO         | 10/11/1999     | 0:35 10/18/1999  | 20:52             | 188.28     | 1493 Air Heater Wash                 |
| 521       | 188    | Oak Creek #8 | *   |     | U1         | 11/15/1999     | 6:58 11/22/1999  | 1:00              | 162.03     | 3431 87 Feedwater Outlet Valve Leak  |

Exhibit N

|     |     |              |     |    |            |       |            |          |        |      |
|-----|-----|--------------|-----|----|------------|-------|------------|----------|--------|------|
| 521 | 158 | Oak Creek #5 |     | U1 | 7/4/1975   | 1:21  | 7/5/1975   | 2:19     | 24.96  | 1060 |
| 521 | 158 | Oak Creek #5 |     | U1 | 7/10/1975  | 22:32 | 7/13/1975  | 8:05     | 57.55  | 1040 |
| 521 | 158 | Oak Creek #5 | 231 | D1 | 7/19/1975  | 3:00  | 7/20/1975  | 22:30    | 43.5   | 3999 |
| 521 | 158 | Oak Creek #5 | 231 | D1 | 7/22/1975  | 22:00 | 7/23/1975  | 6:20     | 8.33   | 3999 |
| 521 | 158 | Oak Creek #5 | 186 | D1 | 7/25/1975  | 4:45  | 7/25/1975  | 19:55    | 15.16  | 3440 |
| 521 | 158 | Oak Creek #5 | 125 | D1 | 8/1/1975   | 10:20 | 8/1/1975   | 12:00    | 1.66   | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 8/2/1975   | 0:09  | 8/3/1975   | 22:22    | 46.21  | 1040 |
| 521 | 158 | Oak Creek #5 | 121 | D1 | 8/15/1975  | 3:30  | 8/15/1975  | 15:00    | 11.5   | 340  |
| 521 | 158 | Oak Creek #5 | 226 | D1 | 8/20/1975  | 21:20 | 8/21/1975  | 1:45     | 4.41   | 1400 |
| 521 | 158 | Oak Creek #5 | 212 | D1 | 9/3/1975   | 12:45 | 9/4/1975   | 2:15     | 13.5   | 3440 |
| 521 | 158 | Oak Creek #5 | 212 | D1 | 9/4/1975   | 2:30  | 9/5/1975   | 4:10     | 25.66  | 3440 |
| 521 | 158 | Oak Creek #5 |     | U1 | 9/6/1975   | 0:12  | 9/7/1975   | 9:50     | 33.63  | 1060 |
| 521 | 158 | Oak Creek #5 | 122 | D1 | 9/26/1975  | 22:00 | 9/27/1975  | 5:50     | 7.83   | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 10/3/1975  | 23:55 | 10/6/1975  | 11:32    | 59.61  | 1060 |
| 521 | 158 | Oak Creek #5 |     | U1 | 10/11/1975 | 3:57  | 10/11/1975 | 7:41     | 3.73   | 9320 |
| 521 | 158 | Oak Creek #5 |     | U1 | 10/24/1975 | 13:14 | 10/27/1975 | 5:07     | 63.88  | 1040 |
| 521 | 158 | Oak Creek #5 |     | U1 | 10/27/1975 | 6:12  | 10/28/1975 | 6:26     | 24.23  | 1040 |
| 521 | 158 | Oak Creek #5 |     | U1 | 10/28/1975 | 7:26  | 10/29/1975 | 10:06    | 26.66  | 1040 |
| 521 | 158 | Oak Creek #5 |     | U1 | 11/1/1975  | 22:23 | 11/2/1975  | 12:28    | 14.08  | 360  |
| 521 | 158 | Oak Creek #5 | 91  | D1 | 11/2/1975  | 12:28 | 11/2/1975  | 19:00    | 6.53   | 340  |
| 521 | 158 | Oak Creek #5 | 231 | D1 | 11/5/1975  | 10:00 | 11/5/1975  | 13:45    | 3.75   | 3999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 11/8/1975  | 1:36  | 11/9/1975  | 23:11    | 45.58  | 1040 |
| 521 | 158 | Oak Creek #5 |     | U1 | 11/14/1975 | 1:43  | 11/16/1975 | 22:10    | 68.44  | 1040 |
| 521 | 158 | Oak Creek #5 |     | U1 | 11/28/1975 | 23:48 | 11/30/1975 | 15:48    | 40     | 1060 |
| 521 | 158 | Oak Creek #5 | 206 | D1 | 12/9/1975  | 23:20 | 12/10/1975 | 13:00    | 13.66  | 3440 |
| 521 | 158 | Oak Creek #5 |     | U1 | 12/13/1975 | 1:41  | 12/15/1975 | 7:16     | 53.58  | 1060 |
| 521 | 158 | Oak Creek #5 |     | U1 | 12/15/1975 | 9:17  | 12/16/1975 | 7:15     | 21.96  | 1040 |
| 521 | 158 | Oak Creek #5 | 90  | D1 | 12/16/1975 | 9:00  | 12/16/1975 | 12:35    | 3.58   | 340  |
| 521 | 158 | Oak Creek #5 | 106 | D1 | 12/23/1975 | 7:30  | 12/24/1975 | 20:00    | 36.5   | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 12/25/1975 | 6:23  | 12/26/1975 | 0:16     | 17.88  | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 12/31/1975 | 21:28 | 12/31/1975 | 24:00:00 | 2.53   | 1040 |
| 521 | 158 | Oak Creek #5 |     | U1 | 1/1/1976   | 0:01  | 1/1/1976   | 23:32    | 23.51  | 1040 |
| 521 | 158 | Oak Creek #5 | 106 | D1 | 1/2/1976   | 8:00  | 1/2/1976   | 16:30    | 8.5    | 3999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 1/3/1976   | 1:03  | 1/3/1976   | 23:17    | 22.23  | 1040 |
| 521 | 158 | Oak Creek #5 | 120 | D1 | 1/3/1976   | 23:17 | 1/5/1976   | 3:00     | 27.71  | 3999 |
| 521 | 158 | Oak Creek #5 | 106 | D1 | 1/6/1976   | 17:45 | 1/6/1976   | 22:15    | 4.5    | 3999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 1/17/1976  | 23:02 | 1/23/1976  | 10:35    | 131.55 | 1060 |
| 521 | 158 | Oak Creek #5 | 90  | D1 | 1/31/1976  | 0:01  | 2/2/1976   | 2:30     | 50.48  | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 2/5/1976   | 2:00  | 2/7/1976   | 20:40    | 66.66  | 1060 |
| 521 | 158 | Oak Creek #5 | 166 | D1 | 2/8/1976   | 1:50  | 2/8/1976   | 10:30    | 8.66   | 340  |
| 521 | 158 | Oak Creek #5 | 86  | D1 | 2/10/1976  | 0:01  | 2/10/1976  | 16:00    | 15.98  | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 2/21/1976  | 2:08  | 2/23/1976  | 2:20     | 48.2   | 1060 |
| 521 | 158 | Oak Creek #5 |     | U1 | 3/6/1976   | 1:59  | 3/8/1976   | 2:49     | 48.83  | 1060 |
| 521 | 158 | Oak Creek #5 |     | MO | 3/11/1976  | 3:11  | 3/14/1976  | 23:31    | 92.33  | 840  |
| 521 | 158 | Oak Creek #5 |     | MO | 3/11/1976  | 3:11  | 3/14/1976  | 23:31    | 92.33  | 1999 |
| 521 | 158 | Oak Creek #5 | 191 | D1 | 3/14/1976  | 23:31 | 3/15/1976  | 12:00    | 12.48  | 1400 |

|     |     |              |     |  |    |            |       |            |       |         |      |
|-----|-----|--------------|-----|--|----|------------|-------|------------|-------|---------|------|
| 521 | 158 | Oak Creek #5 |     |  | U1 | 3/17/1976  | 0:59  | 3/18/1976  | 8:21  | 31.36   | 360  |
| 521 | 158 | Oak Creek #5 |     |  | MO | 3/17/1976  | 0:59  | 3/18/1976  | 8:21  | 31.36   | 1999 |
| 521 | 158 | Oak Creek #5 | 216 |  | D1 | 3/21/1976  | 12:30 | 3/22/1976  | 0:30  | 12      | 3999 |
| 521 | 158 | Oak Creek #5 | 176 |  | D1 | 3/22/1976  | 9:30  | 3/23/1976  | 15:30 | 30      | 340  |
| 521 | 158 | Oak Creek #5 | 106 |  | D1 | 3/22/1976  | 12:30 | 3/23/1976  | 15:30 | 27      | 340  |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 3/23/1976  | 23:57 | 3/25/1976  | 8:55  | 32.96   | 1040 |
| 521 | 158 | Oak Creek #5 | 106 |  | D1 | 3/29/1976  | 3:30  | 3/29/1976  | 5:55  | 2.41    | 1455 |
| 521 | 158 | Oak Creek #5 |     |  | PO | 4/3/1976   | 4:20  | 6/4/1976   | 14:58 | 1498.63 | 1999 |
| 521 | 158 | Oak Creek #5 |     |  | MO | 6/5/1976   | 0:04  | 6/5/1976   | 8:35  | 8.51    | 850  |
| 521 | 158 | Oak Creek #5 | 90  |  | D1 | 6/5/1976   | 8:35  | 6/7/1976   | 0:01  | 39.43   | 340  |
| 521 | 158 | Oak Creek #5 | 99  |  | D1 | 6/8/1976   | 9:15  | 6/8/1976   | 12:15 | 3       | 3999 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 6/12/1976  | 0:33  | 6/13/1976  | 22:28 | 45.91   | 1060 |
| 521 | 158 | Oak Creek #5 |     |  | MO | 6/12/1976  | 0:33  | 6/13/1976  | 22:28 | 45.91   | 1999 |
| 521 | 158 | Oak Creek #5 | 90  |  | D1 | 6/13/1976  | 22:28 | 6/15/1976  | 8:15  | 33.78   | 340  |
| 521 | 158 | Oak Creek #5 | 90  |  | D1 | 6/19/1976  | 0:10  | 6/20/1976  | 0:30  | 24.33   | 340  |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 6/26/1976  | 0:28  | 6/27/1976  | 19:18 | 42.83   | 1060 |
| 521 | 158 | Oak Creek #5 | 226 |  | PD | 7/9/1976   | 15:15 | 7/9/1976   | 20:15 | 5       | 340  |
| 521 | 158 | Oak Creek #5 | 200 |  | PD | 7/10/1976  | 21:00 | 7/12/1976  | 6:20  | 33.33   | 1400 |
| 521 | 158 | Oak Creek #5 | 200 |  | D1 | 7/13/1976  | 15:15 | 7/13/1976  | 19:10 | 3.91    | 1400 |
| 521 | 158 | Oak Creek #5 | 121 |  | D1 | 7/13/1976  | 19:10 | 7/14/1976  | 1:30  | 6.33    | 1400 |
| 521 | 158 | Oak Creek #5 | 200 |  | D1 | 7/14/1976  | 10:30 | 7/15/1976  | 12:15 | 25.75   | 1400 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 7/17/1976  | 2:03  | 7/19/1976  | 0:38  | 46.58   | 1060 |
| 521 | 158 | Oak Creek #5 |     |  | MO | 7/17/1976  | 2:03  | 7/19/1976  | 0:38  | 46.58   | 1999 |
| 521 | 158 | Oak Creek #5 | 200 |  | D1 | 7/19/1976  | 4:30  | 7/20/1976  | 3:30  | 23      | 1400 |
| 521 | 158 | Oak Creek #5 | 210 |  | D1 | 7/21/1976  | 9:00  | 7/22/1976  | 4:30  | 19.5    | 1400 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 8/5/1976   | 1:09  | 8/6/1976   | 12:52 | 35.71   | 1040 |
| 521 | 158 | Oak Creek #5 |     |  | MO | 8/5/1976   | 1:09  | 8/6/1976   | 12:52 | 35.71   | 1999 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 8/7/1976   | 11:07 | 8/8/1976   | 4:13  | 17.1    | 1080 |
| 521 | 158 | Oak Creek #5 | 150 |  | D1 | 8/13/1976  | 23:00 | 8/14/1976  | 13:10 | 14.16   | 3440 |
| 521 | 158 | Oak Creek #5 | 211 |  | D1 | 8/22/1976  | 8:45  | 8/23/1976  | 6:15  | 21.5    | 3999 |
| 521 | 158 | Oak Creek #5 | 216 |  | D1 | 8/23/1976  | 14:30 | 8/24/1976  | 0:01  | 9.51    | 1400 |
| 521 | 158 | Oak Creek #5 | 205 |  | D1 | 8/24/1976  | 7:30  | 8/25/1976  | 18:45 | 35.25   | 1400 |
| 521 | 158 | Oak Creek #5 | 190 |  | D1 | 8/26/1976  | 21:00 | 8/26/1976  | 23:00 | 2       | 1400 |
| 521 | 158 | Oak Creek #5 | 211 |  | D1 | 8/31/1976  | 21:00 | 9/2/1976   | 6:00  | 33      | 1400 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 9/17/1976  | 13:25 | 9/20/1976  | 1:48  | 60.38   | 1060 |
| 521 | 158 | Oak Creek #5 |     |  | MO | 9/17/1976  | 13:25 | 9/20/1976  | 1:48  | 60.38   | 1999 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 9/22/1976  | 11:22 | 9/23/1976  | 7:17  | 19.91   | 1080 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 9/25/1976  | 11:37 | 9/28/1976  | 5:13  | 65.6    | 1040 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 9/30/1976  | 21:19 | 10/3/1976  | 11:04 | 61.75   | 1005 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 10/4/1976  | 13:06 | 10/6/1976  | 3:05  | 37.98   | 1040 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 10/6/1976  | 7:59  | 10/7/1976  | 12:27 | 28.46   | 1060 |
| 521 | 158 | Oak Creek #5 | 114 |  | D1 | 10/8/1976  | 0:15  | 10/9/1976  | 6:15  | 30      | 340  |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 10/11/1976 | 19:00 | 10/11/1976 | 20:30 | 1.5     | 3999 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 10/14/1976 | 10:15 | 10/16/1976 | 3:59  | 41.73   | 1040 |
| 521 | 158 | Oak Creek #5 | 224 |  | D1 | 10/20/1976 | 12:10 | 10/21/1976 | 1:15  | 13.08   | 3440 |
| 521 | 158 | Oak Creek #5 | 224 |  | D1 | 10/21/1976 | 5:30  | 10/21/1976 | 14:00 | 8.5     | 3999 |

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|     |     |              |     |    |            |       |            |          |        |      |
|-----|-----|--------------|-----|----|------------|-------|------------|----------|--------|------|
| 521 | 158 | Oak Creek #5 | 204 | D1 | 10/21/1976 | 13:00 | 10/21/1976 | 14:45    | 1.75   | 3999 |
| 521 | 158 | Oak Creek #5 | 229 | D1 | 10/22/1976 | 13:50 | 10/22/1976 | 14:30    | 0.66   | 250  |
| 521 | 158 | Oak Creek #5 | 224 | D1 | 10/23/1976 | 23:30 | 10/24/1976 | 16:40    | 17.16  | 250  |
| 521 | 158 | Oak Creek #5 | 214 | D1 | 10/26/1976 | 9:00  | 10/26/1976 | 16:50    | 7.83   | 3999 |
| 521 | 158 | Oak Creek #5 | 214 | D1 | 10/28/1976 | 6:50  | 11/11/1976 | 15:40    | 344.83 | 3999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 11/3/1976  | 1:26  | 11/10/1976 | 23:27    | 190.01 | 3999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 11/20/1976 | 1:13  | 11/22/1976 | 2:31     | 49.3   | 1060 |
| 521 | 158 | Oak Creek #5 | 216 | D1 | 11/28/1976 | 5:00  | 11/29/1976 | 4:00     | 23     | 360  |
| 521 | 158 | Oak Creek #5 |     | U1 | 12/3/1976  | 0:40  | 12/8/1976  | 8:09     | 127.48 | 1060 |
| 521 | 158 | Oak Creek #5 |     | U1 | 12/12/1976 | 21:20 | 12/15/1976 | 13:24    | 64.06  | 1040 |
| 521 | 158 | Oak Creek #5 | 176 | D1 | 12/16/1976 | 7:25  | 12/18/1976 | 5:32     | 46.11  | 1040 |
| 521 | 158 | Oak Creek #5 |     | U1 | 12/17/1976 | 0:55  | 12/18/1976 | 5:32     | 28.61  | 1040 |
| 521 | 158 | Oak Creek #5 |     | U1 | 12/21/1976 | 10:48 | 12/22/1976 | 4:17     | 17.48  | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 12/23/1976 | 23:30 | 12/25/1976 | 0:23     | 24.88  | 1040 |
| 521 | 158 | Oak Creek #5 | 216 | D1 | 12/29/1976 | 15:00 | 12/30/1976 | 6:10     | 15.16  | 3999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 12/31/1976 | 0:37  | 12/31/1976 | 23:04    | 22.45  | 1040 |
| 521 | 158 | Oak Creek #5 | 126 | D1 | 1/4/1977   | 4:00  | 1/4/1977   | 12:10    | 8.16   | 250  |
| 521 | 158 | Oak Creek #5 |     | U1 | 1/8/1977   | 1:22  | 1/10/1977  | 20:15    | 66.88  | 1040 |
| 521 | 158 | Oak Creek #5 | 201 | D1 | 1/11/1977  | 1:30  | 1/11/1977  | 15:00    | 13.5   | 3999 |
| 521 | 158 | Oak Creek #5 | 176 | D1 | 1/12/1977  | 2:15  | 1/12/1977  | 5:00     | 2.75   | 1400 |
| 521 | 158 | Oak Creek #5 | 216 | D1 | 1/12/1977  | 6:30  | 1/12/1977  | 24:00:00 | 17.5   | 3999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 1/15/1977  | 0:37  | 1/16/1977  | 21:36    | 44.98  | 1040 |
| 521 | 158 | Oak Creek #5 |     | U1 | 2/3/1977   | 21:48 | 2/4/1977   | 5:50     | 8.03   | 1060 |
| 521 | 158 | Oak Creek #5 | 216 | D1 | 2/5/1977   | 8:45  | 2/6/1977   | 23:30    | 38.75  | 3440 |
| 521 | 158 | Oak Creek #5 | 226 | D1 | 2/17/1977  | 9:15  | 2/17/1977  | 16:15    | 7      | 3999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 2/19/1977  | 0:07  | 2/21/1977  | 8:10     | 56.05  | 1060 |
| 521 | 158 | Oak Creek #5 |     | U1 | 2/24/1977  | 12:26 | 3/1/1977   | 2:08     | 109.7  | 1040 |
| 521 | 158 | Oak Creek #5 | 226 | D1 | 3/13/1977  | 9:45  | 3/13/1977  | 14:00    | 4.25   | 3999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 3/17/1977  | 18:34 | 3/19/1977  | 15:36    | 45.03  | 1040 |
| 521 | 158 | Oak Creek #5 | 176 | D1 | 3/23/1977  | 20:30 | 3/24/1977  | 9:00     | 12.5   | 3440 |
| 521 | 158 | Oak Creek #5 | 216 | D1 | 4/1/1977   | 12:00 | 4/4/1977   | 6:30     | 66.5   | 250  |
| 521 | 158 | Oak Creek #5 | 116 | D1 | 4/3/1977   | 19:00 | 4/4/1977   | 7:00     | 12     | 8560 |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/6/1977   | 22:15 | 4/7/1977   | 5:30     | 7.25   | 1060 |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/30/1977  | 0:56  | 5/3/1977   | 13:37    | 84.68  | 1060 |
| 521 | 158 | Oak Creek #5 | 210 | D1 | 5/3/1977   | 21:25 | 5/4/1977   | 13:49    | 16.4   | 3440 |
| 521 | 158 | Oak Creek #5 |     | U1 | 5/4/1977   | 13:49 | 5/5/1977   | 5:52     | 16.04  | 4309 |
| 521 | 158 | Oak Creek #5 | 175 | D1 | 5/5/1977   | 5:52  | 5/5/1977   | 10:55    | 5.05   | 3440 |
| 521 | 158 | Oak Creek #5 | 200 | D1 | 5/6/1977   | 22:00 | 5/7/1977   | 5:40     | 7.66   | 3440 |
| 521 | 158 | Oak Creek #5 |     | U1 | 5/14/1977  | 1:23  | 5/16/1977  | 0:34     | 47.18  | 1040 |
| 521 | 158 | Oak Creek #5 | 200 | D1 | 5/16/1977  | 8:30  | 5/17/1977  | 9:45     | 25.25  | 3440 |
| 521 | 158 | Oak Creek #5 |     | U1 | 5/21/1977  | 1:56  | 5/22/1977  | 14:08    | 36.2   | 1040 |
| 521 | 158 | Oak Creek #5 | 215 | D1 | 5/29/1977  | 13:30 | 5/30/1977  | 8:20     | 18.83  | 3440 |
| 521 | 158 | Oak Creek #5 | 214 | D1 | 6/5/1977   | 6:10  | 6/6/1977   | 6:24     | 24.23  | 3440 |
| 521 | 158 | Oak Creek #5 |     | U1 | 6/10/1977  | 0:14  | 6/12/1977  | 4:07     | 51.88  | 1060 |
| 521 | 158 | Oak Creek #5 | 199 | D1 | 6/17/1977  | 21:30 | 6/19/1977  | 18:20    | 44.83  | 3440 |
| 521 | 158 | Oak Creek #5 |     | U1 | 6/23/1977  | 0:23  | 6/24/1977  | 22:08    | 45.75  | 1040 |

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|     |     |              |     |    |            |       |            |       |         |      |
|-----|-----|--------------|-----|----|------------|-------|------------|-------|---------|------|
| 521 | 158 | Oak Creek #5 |     | U1 | 6/27/1977  | 1:38  | 6/28/1977  | 3:34  | 25.93   | 1040 |
| 521 | 158 | Oak Creek #5 | 191 | D1 | 7/4/1977   | 10:01 | 7/8/1977   | 23:46 | 109.75  | 1040 |
| 521 | 158 | Oak Creek #5 |     | U1 | 7/8/1977   | 23:46 | 7/10/1977  | 22:48 | 47.03   | 1040 |
| 521 | 158 | Oak Creek #5 |     | U1 | 7/16/1977  | 1:22  | 7/18/1977  | 6:33  | 53.18   | 1060 |
| 521 | 158 | Oak Creek #5 |     | U1 | 7/19/1977  | 3:39  | 7/20/1977  | 5:31  | 25.86   | 1000 |
| 521 | 158 | Oak Creek #5 |     | U1 | 7/24/1977  | 1:05  | 7/25/1977  | 8:28  | 31.38   | 1060 |
| 521 | 158 | Oak Creek #5 | 211 | D1 | 7/27/1977  | 0:01  | 7/28/1977  | 0:43  | 24.7    | 1490 |
| 521 | 158 | Oak Creek #5 |     | U1 | 7/28/1977  | 0:43  | 7/31/1977  | 17:12 | 88.48   | 1160 |
| 521 | 158 | Oak Creek #5 | 190 | D1 | 8/2/1977   | 14:30 | 8/3/1977   | 19:40 | 29.16   | 3440 |
| 521 | 158 | Oak Creek #5 |     | U1 | 8/18/1977  | 12:29 | 8/22/1977  | 1:43  | 85.23   | 1080 |
| 521 | 158 | Oak Creek #5 | 211 | D1 | 8/22/1977  | 10:01 | 8/23/1977  | 5:00  | 18.98   | 3440 |
| 521 | 158 | Oak Creek #5 |     | U1 | 8/25/1977  | 11:12 | 8/27/1977  | 9:20  | 46.13   | 1040 |
| 521 | 158 | Oak Creek #5 |     | PO | 9/3/1977   | 23:02 | 10/27/1977 | 3:12  | 1276.16 | 1999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 10/29/1977 | 0:02  | 10/30/1977 | 4:00  | 27.96   | 1999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 10/30/1977 | 4:00  | 10/30/1977 | 11:00 | 7       | 1040 |
| 521 | 158 | Oak Creek #5 | 151 | D1 | 11/3/1977  | 11:35 | 11/4/1977  | 0:01  | 12.43   | 340  |
| 521 | 158 | Oak Creek #5 | 175 | D1 | 11/11/1977 | 23:15 | 11/14/1977 | 3:30  | 52.25   | 3440 |
| 521 | 158 | Oak Creek #5 |     | U1 | 11/24/1977 | 23:59 | 11/26/1977 | 2:40  | 26.68   | 1060 |
| 521 | 158 | Oak Creek #5 | 175 | D1 | 12/13/1977 | 9:45  | 12/14/1977 | 17:10 | 31.41   | 3440 |
| 521 | 158 | Oak Creek #5 |     | MO | 12/17/1977 | 0:21  | 12/20/1977 | 4:00  | 75.65   | 1060 |
| 521 | 158 | Oak Creek #5 | 226 | D1 | 12/27/1977 | 8:07  | 12/27/1977 | 13:45 | 5.63    | 3999 |
| 521 | 158 | Oak Creek #5 | 206 | D1 | 1/10/1978  | 21:30 | 1/11/1978  | 10:10 | 12.66   | 3440 |
| 521 | 158 | Oak Creek #5 | 161 | D1 | 1/21/1978  | 15:40 | 1/23/1978  | 1:00  | 33.33   | 340  |
| 521 | 158 | Oak Creek #5 | 221 | D1 | 1/25/1978  | 10:45 | 1/25/1978  | 20:00 | 9.25    | 360  |
| 521 | 158 | Oak Creek #5 | 106 | D1 | 1/27/1978  | 2:25  | 1/29/1978  | 20:00 | 65.58   | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 1/27/1978  | 12:35 | 1/30/1978  | 2:09  | 61.56   | 1060 |
| 521 | 158 | Oak Creek #5 | 186 | D1 | 1/31/1978  | 19:30 | 2/2/1978   | 9:30  | 38      | 3440 |
| 521 | 158 | Oak Creek #5 | 101 | D1 | 2/4/1978   | 6:00  | 2/4/1978   | 14:30 | 8.5     | 340  |
| 521 | 158 | Oak Creek #5 | 246 | D1 | 2/6/1978   | 11:30 | 2/7/1978   | 1:00  | 13.5    | 3999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 2/12/1978  | 23:50 | 2/14/1978  | 15:55 | 40.08   | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 3/4/1978   | 0:55  | 3/6/1978   | 6:11  | 53.26   | 1000 |
| 521 | 158 | Oak Creek #5 |     | U1 | 3/9/1978   | 1:28  | 3/22/1978  | 7:35  | 318.11  | 1486 |
| 521 | 158 | Oak Creek #5 |     | U1 | 3/24/1978  | 1:03  | 3/26/1978  | 0:12  | 47.15   | 1490 |
| 521 | 158 | Oak Creek #5 | 161 | D1 | 3/29/1978  | 21:00 | 3/30/1978  | 5:45  | 8.75    | 1455 |
| 521 | 158 | Oak Creek #5 |     | MO | 3/31/1978  | 22:47 | 4/2/1978   | 23:07 | 48.33   | 1486 |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/4/1978   | 11:50 | 4/4/1978   | 14:32 | 2.7     | 4269 |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/8/1978   | 1:28  | 4/9/1978   | 23:42 | 46.23   | 1486 |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/15/1978  | 0:26  | 4/17/1978  | 2:49  | 50.38   | 1486 |
| 521 | 158 | Oak Creek #5 |     | MO | 4/22/1978  | 0:13  | 4/24/1978  | 2:23  | 50.16   | 1486 |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/26/1978  | 9:54  | 4/27/1978  | 2:10  | 16.26   | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 5/2/1978   | 0:43  | 5/2/1978   | 23:24 | 22.68   | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 5/19/1978  | 23:29 | 5/21/1978  | 6:17  | 30.8    | 1060 |
| 521 | 158 | Oak Creek #5 | 230 | D1 | 5/30/1978  | 15:00 | 5/31/1978  | 20:30 | 29.5    | 3440 |
| 521 | 158 | Oak Creek #5 | 154 | D1 | 6/1/1978   | 15:30 | 6/1/1978   | 20:30 | 5       | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 6/3/1978   | 1:03  | 6/14/1978  | 8:30  | 271.45  | 1490 |
| 521 | 158 | Oak Creek #5 | 199 | D1 | 6/15/1978  | 0:20  | 6/15/1978  | 17:00 | 16.66   | 340  |

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|     |     |              |     |  |    |            |       |            |       |        |      |
|-----|-----|--------------|-----|--|----|------------|-------|------------|-------|--------|------|
| 521 | 158 | Oak Creek #5 | 199 |  | D1 | 6/16/1978  | 12:00 | 6/18/1978  | 2:30  | 38.5   | 3440 |
| 521 | 158 | Oak Creek #5 | 184 |  | D1 | 6/26/1978  | 18:30 | 6/27/1978  | 9:45  | 15.25  | 3440 |
| 521 | 158 | Oak Creek #5 | 184 |  | D1 | 6/27/1978  | 10:30 | 6/28/1978  | 12:55 | 26.41  | 3440 |
| 521 | 158 | Oak Creek #5 | 91  |  | D1 | 7/2/1978   | 12:30 | 7/3/1978   | 2:00  | 13.5   | 340  |
| 521 | 158 | Oak Creek #5 | 71  |  | D1 | 7/3/1978   | 7:30  | 7/3/1978   | 20:20 | 12.83  | 340  |
| 521 | 158 | Oak Creek #5 | 91  |  | D1 | 7/4/1978   | 19:15 | 7/5/1978   | 2:00  | 6.75   | 340  |
| 521 | 158 | Oak Creek #5 | 111 |  | D1 | 7/6/1978   | 6:00  | 7/7/1978   | 3:00  | 21     | 340  |
| 521 | 158 | Oak Creek #5 | 221 |  | D1 | 7/9/1978   | 22:15 | 7/10/1978  | 22:05 | 23.83  | 3440 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 7/16/1978  | 4:17  | 7/16/1978  | 20:38 | 16.35  | 1060 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 7/22/1978  | 23:29 | 7/27/1978  | 3:35  | 100.1  | 8560 |
| 521 | 158 | Oak Creek #5 | 121 |  | D1 | 7/27/1978  | 13:00 | 7/27/1978  | 23:45 | 10.75  | 1080 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 7/27/1978  | 23:45 | 7/28/1978  | 21:24 | 21.65  | 1080 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 7/30/1978  | 22:16 | 8/3/1978   | 7:26  | 81.16  | 1000 |
| 521 | 158 | Oak Creek #5 | 211 |  | D1 | 8/4/1978   | 18:15 | 8/6/1978   | 4:45  | 34.5   | 3440 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 8/19/1978  | 14:12 | 8/20/1978  | 5:42  | 15.5   | 1080 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 8/27/1978  | 23:30 | 8/28/1978  | 5:42  | 6.2    | 1060 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 8/31/1978  | 0:06  | 9/4/1978   | 10:21 | 106.25 | 1060 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 9/9/1978   | 0:49  | 9/9/1978   | 22:28 | 21.65  | 1080 |
| 521 | 158 | Oak Creek #5 | 112 |  | D1 | 9/12/1978  | 9:10  | 9/16/1978  | 23:12 | 110.03 | 1455 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 9/16/1978  | 23:12 | 9/17/1978  | 12:20 | 13.13  | 1455 |
| 521 | 158 | Oak Creek #5 | 112 |  | D1 | 9/17/1978  | 12:20 | 10/5/1978  | 12:30 | 432.16 | 1455 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 10/4/1978  | 22:48 | 10/5/1978  | 13:05 | 14.28  | 1455 |
| 521 | 158 | Oak Creek #5 | 179 |  | D1 | 10/12/1978 | 6:10  | 10/13/1978 | 5:30  | 23.33  | 3440 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 10/15/1978 | 0:37  | 10/15/1978 | 16:59 | 16.36  | 1060 |
| 521 | 158 | Oak Creek #5 | 179 |  | D1 | 10/15/1978 | 17:09 | 10/16/1978 | 5:20  | 12.18  | 3440 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 10/17/1978 | 23:37 | 10/19/1978 | 0:25  | 24.8   | 1080 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 10/19/1978 | 16:04 | 10/20/1978 | 4:33  | 12.48  | 8550 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 10/20/1978 | 16:53 | 10/23/1978 | 2:16  | 57.38  | 1080 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 10/25/1978 | 22:13 | 10/26/1978 | 3:15  | 5.03   | 4499 |
| 521 | 158 | Oak Creek #5 |     |  | MO | 10/28/1978 | 0:51  | 10/29/1978 | 19:48 | 42.95  | 1060 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 10/30/1978 | 15:18 | 11/1/1978  | 3:04  | 35.76  | 1040 |
| 521 | 158 | Oak Creek #5 | 181 |  | D1 | 11/1/1978  | 0:30  | 11/1/1978  | 18:30 | 18     | 3440 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 11/4/1978  | 16:08 | 11/6/1978  | 5:29  | 37.34  | 1040 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 11/6/1978  | 17:06 | 11/7/1978  | 14:08 | 21.03  | 1040 |
| 521 | 158 | Oak Creek #5 | 136 |  | D1 | 11/8/1978  | 22:08 | 11/9/1978  | 10:50 | 12.7   | 1455 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 11/10/1978 | 22:28 | 11/13/1978 | 12:09 | 61.68  | 1040 |
| 521 | 158 | Oak Creek #5 | 211 |  | D1 | 11/15/1978 | 9:15  | 11/17/1978 | 9:42  | 48.45  | 3440 |
| 521 | 158 | Oak Creek #5 | 151 |  | D1 | 11/16/1978 | 3:05  | 11/16/1978 | 6:25  | 3.33   | 1455 |
| 521 | 158 | Oak Creek #5 | 101 |  | D1 | 11/19/1978 | 1:00  | 11/19/1978 | 14:00 | 13     | 340  |
| 521 | 158 | Oak Creek #5 | 236 |  | D1 | 11/23/1978 | 13:15 | 11/24/1978 | 19:50 | 30.58  | 250  |
| 521 | 158 | Oak Creek #5 | 131 |  | D1 | 11/28/1978 | 13:45 | 11/28/1978 | 16:30 | 2.75   | 360  |
| 521 | 158 | Oak Creek #5 | 221 |  | D1 | 11/28/1978 | 16:30 | 11/29/1978 | 0:30  | 8      | 340  |
| 521 | 158 | Oak Creek #5 | 206 |  | D1 | 11/30/1978 | 8:45  | 12/2/1978  | 3:00  | 66.25  | 3440 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 12/2/1978  | 2:13  | 12/4/1978  | 3:03  | 48.83  | 1060 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 12/11/1978 | 0:24  | 12/13/1978 | 9:30  | 57.1   | 1060 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 12/27/1978 | 1:38  | 12/30/1978 | 11:11 | 81.55  | 1060 |

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|     |     |              |     |    |            |       |            |          |         |      |
|-----|-----|--------------|-----|----|------------|-------|------------|----------|---------|------|
| 521 | 158 | Oak Creek #5 | 71  | D1 | 12/31/1978 | 15:00 | 12/31/1978 | 24:00:00 | 9       | 920  |
| 521 | 158 | Oak Creek #5 | 101 | D1 | 1/5/1979   | 17:15 | 1/6/1979   | 3:30     | 10.25   | 1999 |
| 521 | 158 | Oak Creek #5 | 70  | D1 | 1/6/1979   | 3:30  | 1/7/1979   | 7:00     | 27.5    | 3999 |
| 521 | 158 | Oak Creek #5 | 65  | D1 | 1/13/1979  | 11:30 | 1/15/1979  | 16:25    | 52.91   | 340  |
| 521 | 158 | Oak Creek #5 | 140 | D1 | 1/15/1979  | 16:25 | 1/15/1979  | 21:13    | 4.8     | 3440 |
| 521 | 158 | Oak Creek #5 | 70  | D1 | 1/17/1979  | 22:15 | 1/18/1979  | 10:30    | 12.25   | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 1/18/1979  | 13:43 | 1/21/1979  | 8:06     | 66.38   | 1040 |
| 521 | 158 | Oak Creek #5 |     | U1 | 1/26/1979  | 23:55 | 1/29/1979  | 9:17     | 57.36   | 1060 |
| 521 | 158 | Oak Creek #5 | 201 | D1 | 2/1/1979   | 16:00 | 2/1/1979   | 21:30    | 5.5     | 340  |
| 521 | 158 | Oak Creek #5 |     | PO | 2/8/1979   | 18:38 | 2/8/1979   | 19:27    | 0.81    | 1999 |
| 521 | 158 | Oak Creek #5 |     | PO | 2/9/1979   | 0:01  | 4/19/1979  | 5:04     | 1661.05 | 1999 |
| 521 | 158 | Oak Creek #5 | 221 | D1 | 4/19/1979  | 18:15 | 4/20/1979  | 11:05    | 16.83   | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/22/1979  | 17:26 | 4/22/1979  | 19:59    | 2.55    | 4099 |
| 521 | 158 | Oak Creek #5 | 126 | D1 | 4/23/1979  | 18:00 | 4/24/1979  | 7:45     | 13.75   | 340  |
| 521 | 158 | Oak Creek #5 | 116 | D1 | 4/24/1979  | 10:50 | 4/25/1979  | 14:00    | 27.16   | 3999 |
| 521 | 158 | Oak Creek #5 | 70  | D1 | 5/2/1979   | 3:45  | 5/2/1979   | 7:30     | 3.75    | 340  |
| 521 | 158 | Oak Creek #5 | 70  | D1 | 5/7/1979   | 16:00 | 5/9/1979   | 4:00     | 36      | 3999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 5/11/1979  | 21:56 | 5/13/1979  | 23:28    | 49.53   | 1060 |
| 521 | 158 | Oak Creek #5 | 195 | D1 | 5/18/1979  | 14:00 | 5/19/1979  | 10:00    | 20      | 3440 |
| 521 | 158 | Oak Creek #5 | 180 | D1 | 5/24/1979  | 13:20 | 5/24/1979  | 14:35    | 1.25    | 1799 |
| 521 | 158 | Oak Creek #5 | 110 | D1 | 5/25/1979  | 5:30  | 5/25/1979  | 8:00     | 2.5     | 3999 |
| 521 | 158 | Oak Creek #5 | 110 | D1 | 5/25/1979  | 9:00  | 5/25/1979  | 9:10     | 0.16    | 3999 |
| 521 | 158 | Oak Creek #5 | 70  | D1 | 5/25/1979  | 9:10  | 5/26/1979  | 2:15     | 17.08   | 3999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 5/27/1979  | 4:10  | 5/29/1979  | 12:43    | 56.55   | 1080 |
| 521 | 158 | Oak Creek #5 | 234 | D1 | 6/13/1979  | 0:01  | 6/13/1979  | 18:22    | 18.35   | 8560 |
| 521 | 158 | Oak Creek #5 |     | U1 | 6/13/1979  | 18:22 | 6/25/1979  | 23:39    | 293.28  | 8550 |
| 521 | 158 | Oak Creek #5 |     | U1 | 6/30/1979  | 1:34  | 7/1/1979   | 23:11    | 45.61   | 1060 |
| 521 | 158 | Oak Creek #5 | 156 | D1 | 7/8/1979   | 21:30 | 7/9/1979   | 21:00    | 23.5    | 3440 |
| 521 | 158 | Oak Creek #5 |     | U1 | 7/14/1979  | 1:35  | 7/16/1979  | 7:21     | 53.76   | 1060 |
| 521 | 158 | Oak Creek #5 | 131 | D1 | 7/16/1979  | 9:30  | 7/17/1979  | 0:40     | 15.16   | 1455 |
| 521 | 158 | Oak Creek #5 | 170 | D1 | 7/28/1979  | 19:00 | 7/29/1979  | 21:30    | 26.5    | 3440 |
| 521 | 158 | Oak Creek #5 | 170 | D1 | 7/30/1979  | 13:45 | 7/31/1979  | 3:00     | 13.25   | 8560 |
| 521 | 158 | Oak Creek #5 |     | U1 | 8/11/1979  | 1:04  | 8/13/1979  | 4:31     | 51.45   | 1060 |
| 521 | 158 | Oak Creek #5 |     | U1 | 8/15/1979  | 1:29  | 8/18/1979  | 15:03    | 85.56   | 1040 |
| 521 | 158 | Oak Creek #5 | 121 | D1 | 8/23/1979  | 0:30  | 8/24/1979  | 5:30     | 29      | 3440 |
| 521 | 158 | Oak Creek #5 | 138 | D1 | 9/10/1979  | 7:00  | 9/13/1979  | 14:00    | 79      | 1486 |
| 521 | 158 | Oak Creek #5 |     | U1 | 10/4/1979  | 1:17  | 10/4/1979  | 10:43    | 9.43    | 8580 |
| 521 | 158 | Oak Creek #5 |     | U1 | 10/5/1979  | 7:32  | 10/6/1979  | 13:01    | 29.48   | 1080 |
| 521 | 158 | Oak Creek #5 | 154 | D1 | 10/15/1979 | 3:45  | 10/17/1979 | 2:00     | 46.25   | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 10/17/1979 | 21:45 | 10/18/1979 | 9:17     | 11.53   | 4619 |
| 521 | 158 | Oak Creek #5 | 159 | D1 | 10/25/1979 | 1:00  | 10/27/1979 | 19:00    | 66      | 3310 |
| 521 | 158 | Oak Creek #5 |     | U1 | 10/27/1979 | 0:25  | 10/28/1979 | 18:37    | 42.2    | 1060 |
| 521 | 158 | Oak Creek #5 |     | U1 | 11/3/1979  | 2:58  | 11/5/1979  | 3:52     | 48.9    | 1040 |
| 521 | 158 | Oak Creek #5 | 101 | D1 | 11/5/1979  | 9:35  | 11/5/1979  | 17:45    | 8.16    | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 11/14/1979 | 7:00  | 11/15/1979 | 6:25     | 23.41   | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 11/23/1979 | 16:29 | 11/25/1979 | 5:55     | 37.43   | 1060 |

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|     |     |              |     |    |            |       |            |          |         |      |
|-----|-----|--------------|-----|----|------------|-------|------------|----------|---------|------|
| 521 | 158 | Oak Creek #5 | 101 | D1 | 11/25/1979 | 10:45 | 11/25/1979 | 14:00    | 3.25    | 340  |
| 521 | 158 | Oak Creek #5 | 206 | D1 | 11/30/1979 | 14:00 | 12/5/1979  | 1:13     | 131.21  | 1490 |
| 521 | 158 | Oak Creek #5 |     | MO | 12/5/1979  | 1:13  | 12/12/1979 | 17:05    | 183.86  | 1160 |
| 521 | 158 | Oak Creek #5 | 221 | D1 | 12/15/1979 | 19:15 | 12/16/1979 | 18:20    | 23.08   | 3440 |
| 521 | 158 | Oak Creek #5 | 165 | D1 | 12/19/1979 | 23:45 | 12/22/1979 | 16:12    | 64.44   | 1060 |
| 521 | 158 | Oak Creek #5 |     | U1 | 12/22/1979 | 0:37  | 12/22/1979 | 16:12    | 15.58   | 1060 |
| 521 | 158 | Oak Creek #5 |     | U1 | 12/23/1979 | 22:08 | 12/24/1979 | 23:12    | 25.06   | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 12/29/1979 | 1:14  | 12/31/1979 | 1:27     | 48.21   | 8560 |
| 521 | 158 | Oak Creek #5 | 210 | D1 | 1/1/1980   | 0:01  | 1/5/1980   | 7:35     | 103.56  | 9650 |
| 521 | 158 | Oak Creek #5 |     | PO | 1/5/1980   | 7:35  | 3/17/1980  | 12:25    | 1708.83 | 1999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 3/17/1980  | 14:02 | 3/18/1980  | 7:38     | 17.6    | 1080 |
| 521 | 158 | Oak Creek #5 | 90  | D1 | 3/18/1980  | 11:45 | 3/18/1980  | 17:15    | 5.5     | 340  |
| 521 | 158 | Oak Creek #5 | 221 | D1 | 3/18/1980  | 17:15 | 3/19/1980  | 4:30     | 11.25   | 340  |
| 521 | 158 | Oak Creek #5 | 151 | PD | 3/20/1980  | 23:45 | 3/21/1980  | 6:35     | 6.83    | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 3/21/1980  | 9:24  | 3/21/1980  | 10:04    | 0.66    | 4269 |
| 521 | 158 | Oak Creek #5 |     | MO | 3/21/1980  | 23:18 | 3/24/1980  | 0:05     | 48.78   | 4099 |
| 521 | 158 | Oak Creek #5 | 111 | D1 | 3/27/1980  | 8:45  | 3/28/1980  | 8:10     | 23.41   | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 3/28/1980  | 23:22 | 3/29/1980  | 23:17    | 23.91   | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/15/1980  | 19:20 | 4/17/1980  | 21:06    | 49.76   | 1080 |
| 521 | 158 | Oak Creek #5 | 131 | D1 | 4/18/1980  | 15:30 | 4/19/1980  | 10:56    | 19.43   | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/19/1980  | 10:56 | 4/20/1980  | 3:27     | 16.51   | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/20/1980  | 4:55  | 4/20/1980  | 7:38     | 2.71    | 4099 |
| 521 | 158 | Oak Creek #5 | 111 | D1 | 4/20/1980  | 7:38  | 4/23/1980  | 5:00     | 69.36   | 340  |
| 521 | 158 | Oak Creek #5 | 231 | D1 | 4/23/1980  | 5:00  | 4/24/1980  | 2:30     | 21.5    | 340  |
| 521 | 158 | Oak Creek #5 | 196 | D1 | 4/24/1980  | 2:30  | 4/28/1980  | 8:05     | 101.58  | 340  |
| 521 | 158 | Oak Creek #5 | 76  | D1 | 4/28/1980  | 8:05  | 4/29/1980  | 13:10    | 29.08   | 340  |
| 521 | 158 | Oak Creek #5 | 176 | D1 | 4/30/1980  | 16:30 | 5/2/1980   | 3:30     | 35      | 3440 |
| 521 | 158 | Oak Creek #5 | 175 | D1 | 5/2/1980   | 21:05 | 5/6/1980   | 16:00    | 90.91   | 3440 |
| 521 | 158 | Oak Creek #5 |     | U1 | 5/3/1980   | 1:09  | 5/4/1980   | 14:07    | 36.96   | 1080 |
| 521 | 158 | Oak Creek #5 | 160 | D1 | 5/6/1980   | 16:00 | 5/23/1980  | 24:00:00 | 416     | 1486 |
| 521 | 158 | Oak Creek #5 | 100 | PD | 5/16/1980  | 0:30  | 5/16/1980  | 5:00     | 4.5     | 1455 |
| 521 | 158 | Oak Creek #5 | 70  | D1 | 5/21/1980  | 7:30  | 5/21/1980  | 9:40     | 2.16    | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 5/24/1980  | 3:48  | 5/25/1980  | 15:59    | 36.18   | 4099 |
| 521 | 158 | Oak Creek #5 |     | U1 | 5/27/1980  | 20:25 | 6/2/1980   | 1:48     | 125.38  | 1080 |
| 521 | 158 | Oak Creek #5 | 190 | D1 | 6/3/1980   | 1:10  | 6/5/1980   | 23:00    | 69.83   | 1490 |
| 521 | 158 | Oak Creek #5 | 200 | D1 | 6/5/1980   | 23:00 | 6/8/1980   | 11:10    | 60.16   | 1490 |
| 521 | 158 | Oak Creek #5 | 119 | D1 | 6/14/1980  | 14:20 | 6/16/1980  | 5:00     | 38.66   | 340  |
| 521 | 158 | Oak Creek #5 | 119 | D1 | 6/16/1980  | 8:40  | 6/16/1980  | 12:50    | 4.16    | 340  |
| 521 | 158 | Oak Creek #5 | 214 | D1 | 6/16/1980  | 23:30 | 6/18/1980  | 4:12     | 28.7    | 3440 |
| 521 | 158 | Oak Creek #5 | 109 | D1 | 6/18/1980  | 14:10 | 6/18/1980  | 22:10    | 8       | 340  |
| 521 | 158 | Oak Creek #5 | 109 | D1 | 6/21/1980  | 22:30 | 6/23/1980  | 4:20     | 29.83   | 340  |
| 521 | 158 | Oak Creek #5 | 169 | D1 | 6/26/1980  | 16:50 | 6/26/1980  | 19:55    | 3.08    | 340  |
| 521 | 158 | Oak Creek #5 | 139 | D1 | 6/28/1980  | 16:50 | 6/29/1980  | 3:00     | 10.16   | 340  |
| 521 | 158 | Oak Creek #5 | 216 | D1 | 7/20/1980  | 15:30 | 7/22/1980  | 16:40    | 49.16   | 3440 |
| 521 | 158 | Oak Creek #5 | 146 | D1 | 7/24/1980  | 8:30  | 7/25/1980  | 3:30     | 19      | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 7/26/1980  | 0:18  | 7/27/1980  | 11:04    | 34.76   | 1060 |

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|     |     |              |     |  |    |            |          |            |          |         |      |
|-----|-----|--------------|-----|--|----|------------|----------|------------|----------|---------|------|
| 521 | 158 | Oak Creek #5 |     |  | U1 | 8/2/1980   | 15:25    | 8/3/1980   | 6:08     | 14.71   | 340  |
| 521 | 158 | Oak Creek #5 | 106 |  | D1 | 8/3/1980   | 6:08     | 8/3/1980   | 19:54    | 13.76   | 3999 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 8/3/1980   | 19:54    | 8/4/1980   | 2:17     | 6.38    | 340  |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 8/17/1980  | 0:30     | 8/18/1980  | 14:20    | 37.83   | 1080 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 8/19/1980  | 5:13     | 8/20/1980  | 2:45     | 21.53   | 1080 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 8/20/1980  | 3:23     | 8/20/1980  | 3:39     | 0.26    | 1080 |
| 521 | 158 | Oak Creek #5 |     |  | MO | 8/22/1980  | 16:19    | 9/3/1980   | 13:01    | 284.7   | 1080 |
| 521 | 158 | Oak Creek #5 | 123 |  | D1 | 9/4/1980   | 16:30    | 9/5/1980   | 1:00     | 8.5     | 340  |
| 521 | 158 | Oak Creek #5 | 75  |  | D1 | 9/7/1980   | 20:30    | 9/7/1980   | 22:00    | 1.5     | 340  |
| 521 | 158 | Oak Creek #5 | 225 |  | D1 | 9/10/1980  | 1:00     | 9/11/1980  | 4:00     | 27      | 1999 |
| 521 | 158 | Oak Creek #5 | 197 |  | D1 | 9/11/1980  | 4:00     | 9/12/1980  | 8:20     | 28.33   | 1999 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 9/13/1980  | 22:15    | 9/14/1980  | 6:39     | 8.39    | 3110 |
| 521 | 158 | Oak Creek #5 | 87  |  | D1 | 9/21/1980  | 14:35    | 9/21/1980  | 21:15    | 6.66    | 340  |
| 521 | 158 | Oak Creek #5 | 227 |  | D1 | 9/22/1980  | 3:00     | 9/22/1980  | 20:42    | 17.7    | 1080 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 9/22/1980  | 20:42    | 9/23/1980  | 8:28     | 11.76   | 1080 |
| 521 | 158 | Oak Creek #5 | 107 |  | D1 | 9/28/1980  | 13:50    | 9/29/1980  | 3:30     | 13.66   | 340  |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 10/3/1980  | 4:58     | 10/5/1980  | 21:17    | 64.31   | 1080 |
| 521 | 158 | Oak Creek #5 | 99  |  | D1 | 10/6/1980  | 19:00    | 10/7/1980  | 3:40     | 8.66    | 340  |
| 521 | 158 | Oak Creek #5 | 89  |  | D1 | 10/9/1980  | 10:45    | 10/9/1980  | 15:30    | 4.75    | 340  |
| 521 | 158 | Oak Creek #5 | 119 |  | D1 | 10/10/1980 | 0:01     | 10/13/1980 | 2:30     | 74.48   | 620  |
| 521 | 158 | Oak Creek #5 | 179 |  | D1 | 10/15/1980 | 1:00     | 10/15/1980 | 9:40     | 8.66    | 340  |
| 521 | 158 | Oak Creek #5 | 119 |  | D1 | 10/25/1980 | 7:00     | 10/25/1980 | 21:05    | 14.08   | 340  |
| 521 | 158 | Oak Creek #5 | 99  |  | D1 | 10/27/1980 | 10:00    | 10/27/1980 | 20:38    | 10.63   | 620  |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 10/27/1980 | 20:38    | 10/31/1980 | 10:18    | 85.66   | 1080 |
| 521 | 158 | Oak Creek #5 | 99  |  | D1 | 10/31/1980 | 10:18    | 11/3/1980  | 3:30     | 65.19   | 340  |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 11/5/1980  | 9:35     | 11/7/1980  | 6:11     | 44.6    | 1080 |
| 521 | 158 | Oak Creek #5 | 231 |  | D1 | 11/10/1980 | 7:00     | 12/23/1980 | 23:51    | 1072.85 | 1040 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 11/10/1980 | 9:21     | 11/11/1980 | 11:12    | 25.85   | 1080 |
| 521 | 158 | Oak Creek #5 | 140 |  | PD | 11/16/1980 | 1:30     | 11/17/1980 | 2:30     | 25      | 340  |
| 521 | 158 | Oak Creek #5 | 131 |  | D1 | 11/22/1980 | 0:01     | 11/22/1980 | 15:10    | 15.15   | 340  |
| 521 | 158 | Oak Creek #5 | 133 |  | D1 | 12/11/1980 | 16:10    | 12/12/1980 | 8:45     | 16.58   | 340  |
| 521 | 158 | Oak Creek #5 |     |  | MO | 12/23/1980 | 23:51    | 12/31/1980 | 24:00:00 | 192.15  | 1486 |
| 521 | 158 | Oak Creek #5 |     |  | MO | 1/1/1981   | 0:01     | 1/5/1981   | 3:26     | 99.41   | 1486 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 1/10/1981  | 20:40    | 1/12/1981  | 1:41     | 29.01   | 1080 |
| 521 | 158 | Oak Creek #5 | 181 |  | D1 | 1/12/1981  | 1:41     | 1/12/1981  | 16:45    | 15.06   | 3440 |
| 521 | 158 | Oak Creek #5 | 231 |  | D1 | 1/14/1981  | 7:00     | 1/17/1981  | 4:13     | 69.21   | 1080 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 1/17/1981  | 4:13     | 1/18/1981  | 15:22    | 35.15   | 1080 |
| 521 | 158 | Oak Creek #5 | 231 |  | D1 | 1/18/1981  | 15:22    | 1/27/1981  | 9:15     | 209.88  | 1080 |
| 521 | 158 | Oak Creek #5 | 206 |  | D1 | 1/19/1981  | 5:30     | 1/19/1981  | 19:30    | 14      | 860  |
| 521 | 158 | Oak Creek #5 | 206 |  | D1 | 1/26/1981  | 8:00     | 1/26/1981  | 22:00    | 14      | 1486 |
| 521 | 158 | Oak Creek #5 | 226 |  | D1 | 1/27/1981  | 9:15     | 1/31/1981  | 0:32     | 87.28   | 1060 |
| 521 | 158 | Oak Creek #5 |     |  | U1 | 1/31/1981  | 1:54     | 2/3/1981   | 14:17    | 84.38   | 1060 |
| 521 | 158 | Oak Creek #5 | 201 |  | D1 | 2/4/1981   | 7:00     | 2/13/1981  | 2:00     | 211     | 1080 |
| 521 | 158 | Oak Creek #5 | 71  |  | D1 | 2/7/1981   | 0:01     | 2/8/1981   | 14:25    | 38.4    | 340  |
| 521 | 158 | Oak Creek #5 | 231 |  | D1 | 2/13/1981  | 2:01     | 2/13/1981  | 24:00:00 | 21.98   | 1080 |
| 521 | 158 | Oak Creek #5 | 221 |  | D1 | 2/13/1981  | 24:00:00 | 2/14/1981  | 6:15     | 6.25    | 3999 |

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|     |     |              |     |    |            |       |            |          |         |      |
|-----|-----|--------------|-----|----|------------|-------|------------|----------|---------|------|
| 521 | 158 | Oak Creek #5 | 231 | D1 | 2/14/1981  | 6:15  | 3/31/1981  | 24:00:00 | 1097.75 | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 2/21/1981  | 4:47  | 2/22/1981  | 3:14     | 22.45   | 1080 |
| 521 | 158 | Oak Creek #5 | 81  | D1 | 2/23/1981  | 4:00  | 2/23/1981  | 9:00     | 5       | 1490 |
| 521 | 158 | Oak Creek #5 | 200 | D1 | 2/23/1981  | 9:00  | 3/5/1981   | 10:00    | 241     | 1490 |
| 521 | 158 | Oak Creek #5 | 165 | D1 | 2/27/1981  | 13:00 | 2/27/1981  | 15:15    | 2.25    | 3999 |
| 521 | 158 | Oak Creek #5 | 135 | D1 | 2/27/1981  | 16:15 | 2/27/1981  | 20:30    | 4.25    | 1486 |
| 521 | 158 | Oak Creek #5 | 125 | D1 | 3/5/1981   | 10:00 | 3/13/1981  | 23:59    | 205.98  | 1490 |
| 521 | 158 | Oak Creek #5 |     | U1 | 3/7/1981   | 22:17 | 3/8/1981   | 7:56     | 9.64    | 8560 |
| 521 | 158 | Oak Creek #5 | 125 | D1 | 3/13/1981  | 23:59 | 3/14/1981  | 22:30    | 22.51   | 250  |
| 521 | 158 | Oak Creek #5 | 141 | D1 | 3/16/1981  | 16:30 | 3/19/1981  | 0:01     | 55.51   | 340  |
| 521 | 158 | Oak Creek #5 | 161 | D1 | 3/31/1981  | 11:25 | 3/31/1981  | 17:20    | 5.91    | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/3/1981   | 23:43 | 4/6/1981   | 5:03     | 53.33   | 8580 |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/6/1981   | 7:40  | 4/6/1981   | 11:06    | 3.43    | 4309 |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/14/1981  | 0:24  | 4/14/1981  | 1:26     | 1.03    | 4309 |
| 521 | 158 | Oak Creek #5 |     | U1 | 4/28/1981  | 0:40  | 5/4/1981   | 3:57     | 147.28  | 1486 |
| 521 | 158 | Oak Creek #5 | 165 | D1 | 5/7/1981   | 6:30  | 5/8/1981   | 23:53    | 41.38   | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 5/8/1981   | 3:27  | 5/8/1981   | 3:39     | 0.2     | 4269 |
| 521 | 158 | Oak Creek #5 |     | U1 | 5/8/1981   | 23:33 | 5/11/1981  | 8:00     | 56.45   | 8325 |
| 521 | 158 | Oak Creek #5 |     | U1 | 5/11/1981  | 8:00  | 5/12/1981  | 8:55     | 24.91   | 1040 |
| 521 | 158 | Oak Creek #5 | 165 | D1 | 5/12/1981  | 12:00 | 6/6/1981   | 0:09     | 588.15  | 1080 |
| 521 | 158 | Oak Creek #5 |     | PO | 6/6/1981   | 0:09  | 6/6/1981   | 12:10    | 12.01   | 1999 |
| 521 | 158 | Oak Creek #5 |     | PO | 6/6/1981   | 13:20 | 6/6/1981   | 17:36    | 4.26    | 4400 |
| 521 | 158 | Oak Creek #5 |     | PO | 6/6/1981   | 18:53 | 7/13/1981  | 2:25     | 871.53  | 1999 |
| 521 | 158 | Oak Creek #5 |     | U1 | 7/13/1981  | 4:20  | 7/14/1981  | 13:07    | 32.78   | 4309 |
| 521 | 158 | Oak Creek #5 |     | U1 | 7/14/1981  | 14:09 | 7/14/1981  | 14:14    | 8       | 4269 |
| 521 | 158 | Oak Creek #5 |     | U1 | 7/24/1981  | 22:34 | 7/27/1981  | 11:21    | 60.78   | 1060 |
| 521 | 158 | Oak Creek #5 |     | U1 | 7/27/1981  | 14:01 | 7/27/1981  | 14:09    | 0.13    | 4269 |
| 521 | 158 | Oak Creek #5 |     | U1 | 7/31/1981  | 22:45 | 8/1/1981   | 1:57     | 3.2     | 1486 |
| 521 | 158 | Oak Creek #5 |     | U1 | 8/1/1981   | 2:44  | 8/3/1981   | 8:54     | 54.16   | 1486 |
| 521 | 158 | Oak Creek #5 |     | U1 | 8/3/1981   | 9:14  | 8/3/1981   | 12:22    | 3.13    | 1486 |
| 521 | 158 | Oak Creek #5 |     | U1 | 8/13/1981  | 2:52  | 8/14/1981  | 3:03     | 24.18   | 1080 |
| 521 | 158 | Oak Creek #5 | 175 | D1 | 8/14/1981  | 3:03  | 8/23/1981  | 1:56     | 214.88  | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 8/23/1981  | 1:59  | 8/26/1981  | 1:34     | 71.58   | 8560 |
| 521 | 158 | Oak Creek #5 | 175 | D1 | 8/26/1981  | 1:33  | 9/1/1981   | 0:23     | 142.83  | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 9/1/1981   | 0:23  | 9/1/1981   | 4:49     | 4.43    | 4609 |
| 521 | 158 | Oak Creek #5 | 176 | D1 | 9/1/1981   | 4:49  | 9/2/1981   | 4:21     | 23.53   | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 9/2/1981   | 4:21  | 9/2/1981   | 18:52    | 14.51   | 3621 |
| 521 | 158 | Oak Creek #5 |     | U1 | 9/2/1981   | 20:20 | 9/3/1981   | 5:45     | 9.41    | 4269 |
| 521 | 158 | Oak Creek #5 |     | U1 | 9/6/1981   | 15:52 | 9/8/1981   | 8:50     | 40.96   | 1060 |
| 521 | 158 | Oak Creek #5 | 152 | D1 | 9/18/1981  | 7:20  | 9/19/1981  | 3:00     | 19.66   | 340  |
| 521 | 158 | Oak Creek #5 |     | U1 | 9/20/1981  | 15:53 | 9/22/1981  | 3:40     | 35.78   | 1080 |
| 521 | 158 | Oak Creek #5 |     | U1 | 9/29/1981  | 23:56 | 10/3/1981  | 12:04    | 84.13   | 1080 |
| 521 | 158 | Oak Creek #5 | 179 | D1 | 10/3/1981  | 12:04 | 10/6/1981  | 4:00     | 63.93   | 1455 |
| 521 | 158 | Oak Creek #5 | 87  | D1 | 10/3/1981  | 12:04 | 10/12/1981 | 3:00     | 206.93  | 1080 |
| 521 | 158 | Oak Creek #5 | 87  | PD | 10/11/1981 | 7:00  | 10/11/1981 | 20:10    | 13.16   | 1455 |
| 521 | 158 | Oak Creek #5 | 122 | D1 | 10/12/1981 | 3:00  | 10/21/1981 | 20:37    | 233.61  | 1080 |

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|     |     |              |      |     |    |            |       |            |          |        |      |   |
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| 521 | 158 | Oak Creek #5 |      |     | U1 | 10/21/1981 | 20:47 | 10/28/1981 | 13:28    | 160.68 | 1486 |   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 11/1/1981  | 15:08 | 11/3/1981  | 6:49     | 39.68  | 1080 |   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 11/10/1981 | 3:54  | 11/10/1981 | 5:59     | 2.08   | 4269 |   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 11/10/1981 | 6:33  | 11/10/1981 | 8:20     | 1.78   | 4269 |   |
| 521 | 158 | Oak Creek #5 | 231  |     | D1 | 11/21/1981 | 6:30  | 11/21/1981 | 13:00    | 6.5    | 3999 |   |
| 521 | 158 | Oak Creek #5 | 196  |     | D1 | 11/23/1981 | 17:30 | 11/27/1981 | 13:30    | 92     | 1400 |   |
| 521 | 158 | Oak Creek #5 | 170  |     | D1 | 11/30/1981 | 22:00 | 12/4/1981  | 3:00     | 101    | 3440 |   |
| 521 | 158 | Oak Creek #5 | 200  |     | D1 | 12/4/1981  | 3:00  | 12/7/1981  | 20:43    | 89.71  | 1080 |   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 12/7/1981  | 20:43 | 12/10/1981 | 16:05    | 67.36  | 1060 |   |
| 521 | 158 | Oak Creek #5 | 200  |     | D1 | 12/10/1981 | 16:05 | 12/17/1981 | 5:30     | 157.41 | 1080 |   |
| 521 | 158 | Oak Creek #5 | 90   |     | D1 | 12/17/1981 | 5:30  | 12/19/1981 | 6:36     | 49.1   | 1060 |   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 12/19/1981 | 6:36  | 12/19/1981 | 21:48    | 15.2   | 1060 |   |
| 521 | 158 | Oak Creek #5 | 90   |     | D1 | 12/19/1981 | 21:48 | 12/29/1981 | 2:31     | 220.71 | 1080 |   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 12/29/1981 | 2:31  | 12/31/1981 | 24:00:00 | 69.48  | 1040 |   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 1/1/1982   | 0:01  | 1/4/1982   | 15:38    | 87.61  | 1040 | SUPERHEATER, REPAIR LEAK  |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 1/4/1982   | 17:38 | 1/5/1982   | 14:35    | 20.95  | 1080 | ECONOMIZER NORTH, REPAIR LEAK   |
|     |     |              |      |     |    |            |       |            |          |        |      | ELECTRICAL PROBLEM IN TURBINE TRIP CIRCUIT CAUSING GENERATOR TRIP               |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 1/18/1982  | 6:45  | 1/18/1982  | 13:06    | 6.35   | 4302 |   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 1/18/1982  | 15:00 | 1/18/1982  | 18:49    | 3.81   | 4299 | CONTROL OIL TROUBLE   |
|     |     |              |      |     |    |            |       |            |          |        |      | MILLS, H.P. H.S. WTR LINE RUPTURE FLOODED GREEN COAL SILO CAUSING MILLS TO PLUG |
| 521 | 158 | Oak Creek #5 | 000* | 70  | D1 | 1/19/1982  | 13:25 | 1/20/1982  | 7:00     | 17.58  | 340  |   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 1/21/1982  | 1:33  | 1/21/1982  | 4:10     | 2.61   | 4299 | CONTROL OIL TROUBLE   |
|     |     |              |      |     |    |            |       |            |          |        |      | OUT TO REPAIR REHEAT LEAK ELEV 81 NORTHEAST CORNER                              |
| 521 | 158 | Oak Creek #5 |      |     | U2 | 1/30/1982  | 22:23 | 2/1/1982   | 0:45     | 26.36  | 1060 |   |
|     |     |              |      |     |    |            |       |            |          |        |      | LEAK AT SOUTH INLET HEADER TO ECONOMIZER-REPAIR LEAKS                           |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/15/1982  | 2:39  | 2/20/1982  | 15:25    | 132.76 | 1080 |   |
|     |     |              |      |     |    |            |       |            |          |        |      | TURBINE, UNIT TRIP ON FAILURE TO MAINTAIN SUFFICIENT CONTROL OIL PRESSURE       |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/20/1982  | 19:10 | 2/20/1982  | 23:51    | 4.68   | 4299 |   |
|     |     |              |      |     |    |            |       |            |          |        |      | PULVERIZED COAL FEEDER, FEEDERS JAMMED UP                                       |
| 521 | 158 | Oak Creek #5 | 000* | 70  | D1 | 2/22/1982  | 4:00  | 2/22/1982  | 7:00     | 3      | 250  |   |
| 521 | 158 | Oak Creek #5 |      |     | MO | 2/25/1982  | 0:14  | 3/1/1982   | 10:10    | 105.93 | 266  | WASH AIR HEATER   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 3/1/1982   | 10:35 | 3/1/1982   | 11:21    | 0.76   | 4293 | UNIT TRIP   |
|     |     |              |      |     |    |            |       |            |          |        |      | GREEN COAL SILO, WET COAL IN SILO CAUSING PULVERIZER PROBLEMS                   |
| 521 | 158 | Oak Creek #5 | 000* | 45  | D1 | 3/1/1982   | 15:00 | 3/4/1982   | 2:00     | 59     | 110  |   |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 3/4/1982   | 2:00  | 3/19/1982  | 23:50    | 381.83 | 1350 | WEAK ECONOMIZER TUBES   |
| 521 | 158 | Oak Creek #5 |      |     | MO | 3/11/1982  | 23:19 | 3/14/1982  | 11:36    | 60.28  | 540  | REHEAT TUBE NORTH LONG ELEV 54  |
|     |     |              |      |     |    |            |       |            |          |        |      | BOILER, HAD HIGH TEMPERATURES-UNIT ONLY ON LINE TWO DAYS-NEEDED SLAGGING        |
| 521 | 158 | Oak Creek #5 | 000* | 160 | D1 | 3/17/1982  | 2:00  | 3/18/1982  | 2:00     | 24     | 1910 | REPAIR ECONOMIZER LEAK REPAIR-LEAK ON INTERMED SUPTH HDR 3                      |
|     |     |              |      |     |    |            |       |            |          |        |      | CELL  |
| 521 | 158 | Oak Creek #5 |      |     | U2 | 3/19/1982  | 23:50 | 3/22/1982  | 9:35     | 57.75  | 1080 |   |

|     |     |              |      |     |    |            |       |            |       |         |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|---------|------|---|
| 521 | 158 | Oak Creek #5 |      |     | U1 | 3/22/1982  | 10:15 | 3/22/1982  | 12:00 | 1.75    | 4299 | UNIT TRIP ON RELAY OIL PRESSUR                                      |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 3/26/1982  | 2:00  | 4/3/1982   | 6:20  | 196.33  | 1080 | WEAK ECONOMIZER BOILER<br>PRESSURE REDUCED                          |
| 521 | 158 | Oak Creek #5 |      |     | MO | 4/3/1982   | 1:40  | 4/3/1982   | 3:35  | 1.91    | 4460 | TURBINE OVERSPEEDS  |
| 521 | 158 | Oak Creek #5 |      |     | PO | 4/3/1982   | 6:20  | 8/5/1982   | 7:17  | 2976.95 | 1800 | BOILER AND TURBINE, ANNUAL<br>OUTAGE                                |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 8/7/1982   | 2:00  | 8/9/1982   | 4:45  | 50.75   | 260  | 51 PRIMARY AIR FAN, REPLACE<br>MOTOR BEARING                        |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 8/7/1982   | 23:44 | 8/9/1982   | 4:45  | 29.01   | 8560 | CLEAR PRECIPITATOR GROUNDS<br>LOST STEAM BOILER FEED PUMP-          |
| 521 | 158 | Oak Creek #5 | 000* | 115 | D1 | 8/16/1982  | 10:50 | 8/16/1982  | 13:30 | 2.66    | 3412 | REPAIRED SUCTION PRESS SENSING<br>RUPTURED REHEAT TUBE-REPLACED     |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 8/17/1982  | 0:20  | 8/19/1982  | 3:42  | 51.36   | 540  | SECTION OF TUBE   |
| 521 | 158 | Oak Creek #5 | 000* | 55  | D1 | 8/19/1982  | 9:05  | 8/19/1982  | 9:30  | 0.41    | 310  | 53 MILL FUEL PUMP PLUGGED 521 FDR<br>OUT RESTORED CLEANED PUMP OUT  |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 8/23/1982  | 0:01  | 8/24/1982  | 8:15  | 32.23   | 1850 | BOILER WATER, HIGH SILICA   |
| 521 | 158 | Oak Creek #5 | 000* | 100 | D1 | 8/23/1982  | 5:30  | 8/23/1982  | 7:30  | 2       | 880  | FLYASH SYSTEM, A & B SYSTEM NOT<br>OPERATING DUE TO DUMP GATE       |
| 521 | 158 | Oak Creek #5 | 000* | 100 | D1 | 8/23/1982  | 5:30  | 8/23/1982  | 7:30  | 2       | 880  | FAILURES<br>A & B SYSTEM NOT OPERATING DUE<br>TO DUMP GATE FAILURES |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 8/24/1982  | 8:15  | 8/30/1982  | 4:33  | 140.3   | 3440 | 5A HP HEATER, INTERNAL TUBE<br>LEAKAGE-REPAIR LEAKS                 |
| 521 | 158 | Oak Creek #5 |      |     | U2 | 8/27/1982  | 0:30  | 8/30/1982  | 4:33  | 76.05   | 1060 | BOILER, REHEAT LEAK   |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 8/30/1982  | 23:15 | 9/2/1982   | 0:01  | 48.76   | 1850 | BOILER WATER CHEMISTRY, HIGH<br>SILICA                              |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 9/30/1982  | 23:15 | 10/1/1982  | 5:35  | 6.33    | 1060 | BOILER, REPAIR REHEAT TUBE LEAK<br>EL 54 SOUTHEAST CORNER           |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 10/5/1982  | 15:49 | 10/6/1982  | 7:00  | 15.18   | 3440 | INTERNAL LEAKAGE ON 5B HIGH<br>PRESSURE FEEDWATER HEATER            |
| 521 | 158 | Oak Creek #5 | 000* | 120 | D1 | 10/6/1982  | 7:00  | 10/8/1982  | 5:50  | 46.83   | 3440 | FEEDWATER HEATERS, INTERNAL<br>LEAKAGE ON 55B, 56B & 56A HEATERS    |
| 521 | 158 | Oak Creek #5 | 000* | 45  | D1 | 10/11/1982 | 16:00 | 10/12/1982 | 6:00  | 14      | 250  | 55 PULVER COAL FEEDER PROBLEMS<br>CONV SUPERHEATER, REPAIR          |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 10/12/1982 | 15:03 | 10/18/1982 | 5:38  | 134.58  | 1140 | RUPTURED SUPERHEATER TUBE   |
| 521 | 158 | Oak Creek #5 | 000* | 154 | D1 | 10/19/1982 | 21:15 | 10/20/1982 | 18:40 | 21.41   | 3440 | A SET HIGH PRESS HEAT, LEAK IN 5A<br>HP HEATER                      |
| 521 | 158 | Oak Creek #5 | 000* | 230 | D1 | 10/24/1982 | 17:10 | 10/25/1982 | 5:30  | 12.33   | 1999 | PULV. FUEL FDR #53, FREQUENTLY<br>SHEARING SHEAR PINS               |
| 521 | 158 | Oak Creek #5 | 000* | 230 | D1 | 10/28/1982 | 4:30  | 10/29/1982 | 5:15  | 24.75   | 250  | 53 PULVERIZED FEEDER OUT TO<br>REPLACE SEAL                         |
| 521 | 158 | Oak Creek #5 | 000* | 140 | D1 | 11/1/1982  | 4:50  | 11/2/1982  | 4:15  | 23.41   | 3440 | REPAIR INTERNAL LEAKAGE 5B<br>FEEDWATER HEATER                      |

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|     |     |              |      |     |    |            |       |            |          |        |      |   |
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| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 11/1/1982  | 14:30 | 11/2/1982  | 4:00     | 13.5   | 340  | #84 PULVERIZER, REPLACE BROKEN PYRITE SCRAPPERS AND ADJUST #1 ROLLER JOURNAL  |
| 521 | 158 | Oak Creek #5 | 000* | 151 | D1 | 11/4/1982  | 19:00 | 11/6/1982  | 3:30     | 32.5   | 3440 | TUBE LEAK 5B HP HEATER  |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 11/7/1982  | 16:05 | 11/7/1982  | 19:42    | 3.61   | 1999 | PULVERIZED FUEL FEEDER, DRIVEN GEAR HUB KEY BACKED OUT- REINSTALLED KEY       |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 11/10/1982 | 11:30 | 11/11/1982 | 0:55     | 13.41  | 3420 | FEEDWATER, THERMOCOUPLE WELL LEAKAGE ON SOUTH ECON INLET PIPING REDUCED PRESS |
| 521 | 158 | Oak Creek #5 |      |     | U2 | 11/11/1982 | 0:55  | 11/12/1982 | 7:05     | 30.16  | 1080 | REPAIR THERMOCOUPPING WELL IN SOUTH ECON INLET HEADER                         |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 11/20/1982 | 9:00  | 11/20/1982 | 23:45    | 14.75  | 3441 | 5B FEEDWATER HEATER FEEDWATER SIDE RELIEF VALVE FAILED REPAIR OR REPL         |
| 521 | 158 | Oak Creek #5 | 000* | 165 | D1 | 11/22/1982 | 12:00 | 11/25/1982 | 0:30     | 60.5   | 1130 | BOILER, FLAME IMPINGEMENT ON SCREEN TUBES                                     |
| 521 | 158 | Oak Creek #5 |      |     | U2 | 11/25/1982 | 0:30  | 12/2/1982  | 11:25    | 202.91 | 1060 | BOILER, REPAIR REHEAT LEAKS   |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 12/7/1982  | 12:30 | 12/7/1982  | 13:55    | 1.41   | 250  | PULV. COAL FEEDERS, ADJUST FEEDER CLEARANCE.                                  |
| 521 | 158 | Oak Creek #5 | 000* | 170 | D1 | 12/9/1982  | 15:00 | 12/10/1982 | 1:00     | 10     | 1850 | BOILER WATER, HIGH SILISCA  |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 12/26/1982 | 16:30 | 12/27/1982 | 6:30     | 14     | 350  | PULV FUEL FEEDER, FDR TRIPS WHEN LOADED WITH COAL                             |
| 521 | 158 | Oak Creek #5 | 000* | 170 | D1 | 12/29/1982 | 5:45  | 12/30/1982 | 0:08     | 18.38  | 3440 | FEED WATER LEAK 6A HIGH PRESSURE HEATER                                       |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 12/30/1982 | 0:08  | 12/31/1982 | 24:00:00 | 47.86  | 1040 | SUPERHEAT LEAK.   |
| 521 | 158 | Oak Creek #5 |      |     | U2 | 1/1/1983   | 0:01  | 1/3/1983   | 6:00     | 53.98  | 1060 | REPAIR REHEAT LEAKS   |
| 521 | 158 | Oak Creek #5 |      |     | U2 | 1/3/1983   | 6:01  | 1/5/1983   | 2:47     | 44.76  | 1040 | REPAIR SUPERHEAT LEAK   |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 1/6/1983   | 1:00  | 1/12/1983  | 1:00     | 144    | 1150 | BOILER SUPERHEAT TEMPERATURE PROBLEMS   |
| 521 | 158 | Oak Creek #5 |      |     | U2 | 1/13/1983  | 21:00 | 1/16/1983  | 7:30     | 58.5   | 1060 | REPAIR REHEAT LEAKS   |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 1/20/1983  | 1:00  | 1/21/1983  | 22:50    | 45.83  | 250  | PULVERIZED COAL FEEDER PROBLEMS   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 1/21/1983  | 22:50 | 1/22/1983  | 7:46     | 8.93   | 1440 | REPAIR #3 PRIMARY AIR DAMPER  |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 1/22/1983  | 7:46  | 1/23/1983  | 0:15     | 16.48  | 3440 | 5B HP HEATER TUBE REPAIR  |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 1/23/1983  | 0:15  | 1/26/1983  | 19:00    | 90.75  | 250  | REPLACE #57 PULVERIZER FUEL FEEDER WITH REBUILT ASSEMBLY                      |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 1/28/1983  | 14:20 | 1/29/1983  | 5:30     | 15.16  | 8550 | LOW PRECIPITATOR VOLTAGE CAUSING STACK OPACITY                                |
| 521 | 158 | Oak Creek #5 | 000* | 205 | D4 | 1/29/1983  | 19:00 | 1/30/1983  | 3:00     | 8      | 260  | INSPECT 51 PRIMARY AIR FAN  |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/3/1983   | 23:39 | 2/6/1983   | 18:00    | 66.35  | 1060 | INBOARD MOTOR BEARING REPAIR REHEAT LEAKS                                     |
| 521 | 158 | Oak Creek #5 |      |     | U2 | 2/6/1983   | 18:01 | 2/9/1983   | 23:37    | 77.6   | 4613 | REPAIR HIGH SPEED GENERATOR INBOARD HYDROGEN SEAL                             |



|     |     |              |      |     |    |           |       |           |       |        |      |   |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|---|
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/10/1983 | 15:30 | 2/10/1983 | 16:13 | 0.71   | 4262 | INTERCEPTING VALVES CLOSED<br>CAUSING TURBINE TO ROLL BACK AND<br>TRIP          |
| 521 | 158 | Oak Creek #5 | 000* | 100 | D1 | 2/10/1983 | 21:00 | 2/11/1983 | 2:40  | 5.66   | 1850 | HIGH SILICA   |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 2/11/1983 | 2:40  | 2/14/1983 | 19:21 | 88.68  | 1850 | HIGH SILICA IN BOILER WATER   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/14/1983 | 19:22 | 2/15/1983 | 5:59  | 10.61  | 3110 | REPAIR CONDENSER LEAKS  |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 2/15/1983 | 17:16 | 2/16/1983 | 22:15 | 28.98  | 3440 | 55A FEEDWATER HEATER TUBE LEAKS   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/16/1983 | 22:15 | 2/20/1983 | 8:16  | 82.01  | 1040 | REPAIR SUPERHEAT LEAK   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/16/1983 | 9:32  | 2/16/1983 | 9:50  | 0.3    | 4302 | UNIT TRIP-TESTING LOW SPEED<br>GOVERNOR TRAP VALVE                              |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/20/1983 | 8:16  | 2/21/1983 | 8:17  | 24.01  | 4283 | CORRECT TURBINE CONTROL OIL<br>PROBLEM  |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/21/1983 | 8:20  | 2/21/1983 | 11:44 | 3.4    | 4140 | HIGH VIBRATION INTERMEDIATE<br>PRESSURE TURBINE                                 |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/21/1983 | 11:55 | 2/21/1983 | 13:25 | 1.5    | 4140 | HIGH VIBRATION INTERMEDIATE<br>PRESSURE TURBINE                                 |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 2/23/1983 | 1:30  | 2/26/1983 | 14:30 | 85     | 1850 | HIGH SILICA IN BOILER WATER   |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 2/27/1983 | 18:30 | 2/28/1983 | 2:15  | 7.75   | 250  | 55 PULVERIZED COAL FEEDER<br>PROBLEM  |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/28/1983 | 20:15 | 3/7/1983  | 7:00  | 154.75 | 1020 | BOILER TUBE LEAK IN CONVECTION<br>SECTION                                       |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 3/7/1983  | 7:01  | 3/8/1983  | 11:34 | 28.55  | 1040 | INTERMEDIATE SUPERHEAT TUBE<br>LEAK AT HEADER NORTH END                         |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 3/9/1983  | 12:15 | 3/10/1983 | 12:25 | 24.16  | 3440 | 5A HEATER INTERNAL LEAK   |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D2 | 3/11/1983 | 22:15 | 3/12/1983 | 9:30  | 11.25  | 3440 | INTERNAL LEAKAGE 6A FDWTR HTR   |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 3/19/1983 | 20:00 | 3/21/1983 | 22:30 | 50.5   | 3440 | REPAIR TUBE LEAKS 5A HP HTR   |
| 521 | 158 | Oak Creek #5 | 000* | 160 | D1 | 3/24/1983 | 17:30 | 3/24/1983 | 22:00 | 4.5    | 250  | #56 PULVERIZED FUEL FEEDER TRIP   |
| 521 | 158 | Oak Creek #5 | 000* | 215 | D1 | 3/28/1983 | 6:15  | 3/28/1983 | 20:15 | 14     | 250  | PULVERIZED COAL FEEDER TROUBLES   |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 4/2/1983  | 5:55  | 4/2/1983  | 21:55 | 16     | 250  | REPAIR 54 PULVERIZED COAL FEEDER  |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 4/7/1983  | 14:00 | 4/9/1983  | 4:30  | 38.5   | 1999 | 55 PULV FUEL FDR TRIPPING-CAUSE<br>UNKNOWN                                      |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D2 | 4/10/1983 | 1:30  | 4/11/1983 | 1:30  | 24     | 3440 | REPAIR 7A HTR HEAD LEAK   |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 4/15/1983 | 11:30 | 4/18/1983 | 7:00  | 67.5   | 1140 | SLAG IN SCREEN TUBES-ELEV 19<br>LACK OF TOTAL AIR FLOW                          |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 4/18/1983 | 7:00  | 4/20/1983 | 1:50  | 42.83  | 1200 | LIMITING LOAD AS SLAG DEVELOPS  |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 4/20/1983 | 1:50  | 4/21/1983 | 18:20 | 40.5   | 3440 | INTERNAL LEAKAGE 7B HEATER<br>REDUCED TOTAL AIR FLOW CAUSING<br>SLAG TO DEVELOP |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 4/21/1983 | 18:20 | 4/22/1983 | 3:40  | 9.33   | 1200 | INTERNAL LEAKAGE 5A FEEDWATER<br>HEATER   |
| 521 | 158 | Oak Creek #5 | 000* | 140 | D1 | 4/22/1983 | 3:40  | 4/23/1983 | 18:15 | 38.58  | 3440 | REHEAT LEAKS  |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 4/23/1983 | 18:30 | 4/29/1983 | 23:38 | 149.13 | 1060 | REPAIR REHEATER LEAKS 1 & 4 CELLS   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 4/29/1983 | 23:38 | 5/2/1983  | 6:11  | 54.55  | 1060 | REPAIR REHEATER LEAKS 1 & 4 CELLS   |

|     |     |              |      |     |    |           |       |           |       |       |      |   |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|-------|------|---|
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 5/4/1983  | 1:45  | 5/6/1983  | 2:30  | 48.75 | 1450 | AIR SUPPLY PROBLEMS ON BOILER<br>COMBUSTION AIR   |
| 521 | 158 | Oak Creek #5 |      |     | PO | 5/13/1983 | 19:49 | 6/12/1983 | 18:49 | 719   | 1800 | ANNUAL OUTAGE   |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 6/14/1983 | 13:00 | 6/15/1983 | 15:00 | 26    | 4613 | HIGH SPEED GENERATOR OUTBOARD<br>HYDROGEN SEAL LEAKING, PLANT IS<br>OUT OF HYDROGEN     |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 6/14/1983 | 1:30  | 6/14/1983 | 13:00 | 11.5  | 1450 | HIGH SUPHT TEMP DUE TO CLEAN<br>TUBES   |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 6/15/1983 | 15:00 | 6/19/1983 | 5:00  | 86    | 1150 | HIGH SUPERHEAT TEMPERATURES<br>DUE TO LACK OF SLAG BUILDUP ON<br>TUBES                  |
| 521 | 158 | Oak Creek #5 | 000* | 215 | D1 | 6/19/1983 | 5:00  | 6/22/1983 | 17:20 | 84.33 | 1150 | HIGH SUPERHEAT TEMPERATURES<br>DUE TO LACK OF SLAG BUILD UP ON<br>TUBES AND LACK OF AIR |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 6/22/1983 | 17:20 | 6/23/1983 | 18:35 | 25.25 | 1060 | TOOK UNIT OUT TO REPAIR REHEAT<br>LEAK IN #1 CELL                                       |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 6/23/1983 | 18:35 | 6/24/1983 | 7:31  | 12.93 | 265  | 51 AIR HEATER OUT OF SERVICE,<br>WON'T TURN   |
| 521 | 158 | Oak Creek #5 | 000* | 215 | PD | 6/25/1983 | 1:30  | 7/1/1983  | 4:00  | 146.5 | 1450 | SUPERHEAT TEMPERATURE CONTROL   |
| 521 | 158 | Oak Creek #5 | 000* | 215 | D1 | 7/1/1983  | 9:00  | 7/2/1983  | 1:30  | 16.5  | 1450 | AIR SHORTAGE CAUSING LOSS OF<br>SUPERHEAT TEMPERATURE CONTROL                           |
| 521 | 158 | Oak Creek #5 | 000* | 85  | D1 | 7/1/1983  | 4:00  | 7/1/1983  | 9:00  | 5     | 310  | 51 AND 52 MILL SYSTEMS BOTH OUT<br>FOR REPAIRS, LOW COAL LEVELS.                        |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D3 | 7/2/1983  | 1:30  | 7/2/1983  | 10:45 | 9.25  | 3509 | REPAIR LEAK IN 51B DRAIN LINE   |
| 521 | 158 | Oak Creek #5 | 000* | 215 | D1 | 7/2/1983  | 9:45  | 7/4/1983  | 20:30 | 58.75 | 1450 | SUPERHEAT TEMPERATURE CONTROL<br>- LACK OF AIR  |
| 521 | 158 | Oak Creek #5 | 000* | 60  | D1 | 7/4/1983  | 20:30 | 7/6/1983  | 18:30 | 46    | 310  | 51 AND 52 MILL SYSTEMS OUT FOR<br>REPAIRS   |
| 521 | 158 | Oak Creek #5 | 000* | 215 | D1 | 7/7/1983  | 15:00 | 7/8/1983  | 2:00  | 11    | 1450 | SUPERHEAT TEMP CONTROL<br>PROBLEMS-LOW AIR FLOWS  |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 7/8/1983  | 2:00  | 7/12/1983 | 1:00  | 95    | 1450 | SUPERHEAT TEMP CONTROL<br>PROBLEMS - LOW AIR FLOW                                       |
| 521 | 158 | Oak Creek #5 | *    |     | U3 | 7/19/1983 | 19:13 | 7/20/1983 | 18:59 | 23.76 | 1060 | REHEAT LEAK ON EL 86 SOUTH SIDE<br>OF BOILER  |
| 521 | 158 | Oak Creek #5 | 000* | 165 | D1 | 7/19/1983 | 6:34  | 7/19/1983 | 19:11 | 12.61 | 1060 | REHEAT LEAK ON EL 86 SOUTH SIDE<br>OF BOILER  |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D2 | 7/22/1983 | 1:30  | 7/23/1983 | 16:58 | 39.46 | 1850 | HIGH SILICA IN BOILER WATER   |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/23/1983 | 16:58 | 7/25/1983 | 9:55  | 40.95 | 1060 | BROKEN REHEAT TUBE IN #1 CELL EL.<br>54   |
| 521 | 158 | Oak Creek #5 | 000* | 156 | D1 | 7/27/1983 | 8:45  | 7/27/1983 | 10:40 | 1.91  | 1850 | HIGH SILICA IN BOILER WATER   |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D2 | 7/28/1983 | 1:30  | 8/1/1983  | 2:00  | 96.5  | 1450 | SUPERHEAT TEMPERATURE CONTROL<br>PROBLEMS   |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 8/1/1983  | 18:30 | 8/2/1983  | 2:00  | 7.5   | 1060 | REHEAT LEAK NORTH WALL ELEV 45  |

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|     |     |              |      |     |    |           |       |           |       |        |      |   |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|---|
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 8/2/1983  | 7:55  | 8/2/1983  | 9:18  | 1.38   | 1060 | BOILER REHEAT TUBE LEAK ELEV 45 NORTH WALL                                    |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 8/2/1983  | 9:18  | 8/6/1983  | 18:03 | 104.75 | 1060 | REHEAT TUBE RUPTURE   |
| 521 | 158 | Oak Creek #5 | 000* | 140 | D1 | 8/7/1983  | 2:45  | 8/7/1983  | 21:00 | 18.25  | 1410 | 51 FORCED DRAFT FAN MOTOR BEARING REPLACEMENT                                 |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 8/8/1983  | 0:30  | 8/8/1983  | 7:00  | 6.5    | 1450 | SUPERHEAT TEMPERATURE CONTROL PROBLEMS  |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 8/8/1983  | 7:00  | 8/9/1983  | 11:30 | 28.5   | 250  | 52 PULV COAL FDR NO CONTROL OF COAL FLOW                                      |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 8/9/1983  | 14:00 | 8/11/1983 | 1:30  | 35.5   | 1999 | BOILER CONDITIONS, UNIT RETURNING TO SERVICE FOLLOWING OUTAGE                 |
| 521 | 158 | Oak Creek #5 | 000* | 165 | D1 | 8/9/1983  | 11:30 | 8/9/1983  | 14:00 | 2.5    | 250  | 52 PULVERIZED COAL FEEDER TROUBLE   |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 8/11/1983 | 1:30  | 8/11/1983 | 7:10  | 5.66   | 3440 | TUBE LEAK-6B HIGH PRESSURE FEEDWATER HEATER                                   |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 8/11/1983 | 7:10  | 8/12/1983 | 1:30  | 18.33  | 3440 | INTERNAL LEAKS 6B AND 6A FEEDWATER HEATERS                                    |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 8/12/1983 | 1:30  | 8/12/1983 | 12:17 | 10.78  | 1050 | REPAIR LEAK AT RADIANT SUPERHEAT HEADER                                       |
| 521 | 158 | Oak Creek #5 | 000* | 80  | D1 | 8/13/1983 | 11:25 | 8/14/1983 | 1:00  | 13.58  | 310  | #52 MILL PLUGGED-HAVE TO VACUUM CLASSIFIERS                                   |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 8/13/1983 | 1:30  | 8/13/1983 | 11:35 | 10.08  | 3440 | A SET OF FEEDWATER HEATERS OUT TO REPAIR TUBE LEAK IN #7A AND #6A             |
| 521 | 158 | Oak Creek #5 | 000* | 60  | D1 | 8/14/1983 | 1:00  | 8/16/1983 | 11:15 | 58.25  | 310  | 52 MILL OUT OF SERVICE, 53 MILL SUPPLYING UNIT #6-ONLY 1 MILL AVAIL TO UNIT 5 |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 8/16/1983 | 11:15 | 8/17/1983 | 1:30  | 14.25  | 1999 | HIGH BOILER TEMPERATURE   |
| 521 | 158 | Oak Creek #5 | 000* | 190 | D1 | 8/17/1983 | 1:30  | 8/18/1983 | 1:30  | 24     | 1999 | HIGH BOILER TEMPERATURE   |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 8/18/1983 | 1:30  | 8/19/1983 | 2:00  | 24.5   | 1999 | HIGH BOILER TEMPERATURE   |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 8/19/1983 | 2:00  | 8/20/1983 | 2:00  | 24     | 1999 | HIGH BOILER TEMPERATURE   |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 8/20/1983 | 2:00  | 8/23/1983 | 6:30  | 76.5   | 360  | 52 PULVERIZED COAL FEEDER OUT OF SERVICE-FEED PROBLEMS                        |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 8/23/1983 | 6:30  | 8/23/1983 | 14:05 | 7.58   | 250  | 52 PULV COAL FEEDER   |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 8/24/1983 | 2:00  | 8/25/1983 | 11:40 | 33.66  | 360  | 52 PULVERIZED COAL FEEDER FEEDING ERRATICALLY                                 |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 8/25/1983 | 11:40 | 8/26/1983 | 1:45  | 14.08  | 360  | 52 PULVERIZED COAL FEEDER REPAIR  |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D2 | 8/27/1983 | 1:45  | 8/29/1983 | 9:30  | 55.75  | 1999 | BOILER CONDITIONS UNABLE TO CONTROL BOILER TEMPERATURES-LACK OF SLAG          |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 8/29/1983 | 9:30  | 8/30/1983 | 2:00  | 16.5   | 360  | 52 PULVERIZED FUEL FEEDER STUCK   |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 8/30/1983 | 2:00  | 8/30/1983 | 20:04 | 18.06  | 1999 | BOILER CONDITIONS UNABLE TO CONTROL BOILER TEMPERATURES-LACK OF SLAG          |

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|     |     |              |      |     |    |            |       |            |          |         |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|---------|------|--|
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 8/30/1983  | 20:04 | 9/6/1983   | 7:12     | 155.13  | 1060 | REHEAT LEAK NORTH WALL ELEV 54   |
| 521 | 158 | Oak Creek #5 | 000* | 100 | D1 | 9/6/1983   | 17:52 | 9/7/1983   | 0:20     | 6.46    | 3416 | STEAM BOILER FEED PUMP CONTROLS FAILURE  |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 9/7/1983   | 0:20  | 9/8/1983   | 2:00     | 25.66   | 1999 | HIGH SUPERHEAT TEMPERATURE DUE TO NO SLAG BUILD UP ON TUBES                        |
| 521 | 158 | Oak Creek #5 | 000* | 215 | D1 | 9/8/1983   | 2:00  | 9/9/1983   | 2:00     | 24      | 1999 | HIGH SUPERHEAT TEMPERATURE DUE TO NO SLAG BUILD UP ON TUBES                        |
| 521 | 158 | Oak Creek #5 | 000* | 230 | D1 | 9/9/1983   | 2:00  | 9/10/1983  | 19:00    | 41      | 1999 | HIGH SUPERHEAT TEMPERATURE DUE TO NO SLAG BUILD UP ON TUBES                        |
| 521 | 158 | Oak Creek #5 | 000* | 120 | D1 | 9/10/1983  | 19:00 | 9/13/1983  | 5:15     | 58.25   | 3440 | REPAIR INTERNAL LEAKAGE 56B FEEDWATER HEATER                                       |
| 521 | 158 | Oak Creek #5 | 000* | 230 | D1 | 9/13/1983  | 5:15  | 9/14/1983  | 2:00     | 20.75   | 530  | HIGH SUPERHEAT TEMPERATURES  |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 9/14/1983  | 22:00 | 9/16/1983  | 3:25     | 29.41   | 3440 | 56A HIGH PRESSURE FEEDWATER HEATER INTERNAL TUBE LEAK                              |
| 521 | 158 | Oak Creek #5 | 000* | 230 | D1 | 9/14/1983  | 2:00  | 9/14/1983  | 22:00    | 20      | 410  | 52 PULVERIZED FEEDER-FEED CONTROL PROBLEMS.  |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 9/16/1983  | 3:25  | 9/22/1983  | 6:15     | 146.83  | 1999 | SUPERHEAT TEMPERATURE CONTROL  |
| 521 | 158 | Oak Creek #5 | 000* | 225 | PD | 10/1/1983  | 1:30  | 10/1/1983  | 18:15    | 16.75   | 250  | 52 PULVERIZED COAL FEEDER REPLACEMENT  |
| 521 | 158 | Oak Creek #5 | 000* | 210 | PD | 10/1/1983  | 18:15 | 10/4/1983  | 10:00    | 63.75   | 250  | 52 PULVERIZED COAL FEEDER REPLACEMENT  |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/6/1983  | 14:22 | 10/10/1983 | 14:02    | 95.66   | 1040 | REPAIR SUPERHEAT LEAK  |
| 521 | 158 | Oak Creek #5 | 000* | 120 | D1 | 10/10/1983 | 14:02 | 10/11/1983 | 3:30     | 13.46   | 3440 | REPAIR LEAK IN 57A FEEDWATER HEATER  |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 10/11/1983 | 3:30  | 10/13/1983 | 1:30     | 46      | 1450 | SUPERHEAT TEMPERATURE CONTROL  |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 10/13/1983 | 1:30  | 10/15/1983 | 6:00     | 52.5    | 1450 | SUPERHEAT TEMPERATURE CONTROL  |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 10/15/1983 | 6:00  | 10/15/1983 | 10:05    | 4.08    | 880  | *A* FLY ASH SYSTEM NOT PULLING ADEQUATELY  |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 10/15/1983 | 10:05 | 10/18/1983 | 6:30     | 68.41   | 1450 | SUPERHEAT TEMPERATURE CONTROL  |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 10/18/1983 | 6:30  | 10/18/1983 | 13:00    | 6.5     | 410  | 52 PULVERIZED COAL FEEDER ERRATIC FEEDING  |
| 521 | 158 | Oak Creek #5 | 000* | 46  | D1 | 10/23/1983 | 20:40 | 10/24/1983 | 2:00     | 5.33    | 340  | 51 FUEL PUMP COUPLING BUSHINGS FAILED  |
| 521 | 158 | Oak Creek #5 | 000* | 50  | D1 | 10/26/1983 | 0:47  | 10/26/1983 | 15:00    | 14.21   | 340  | 51 & 52 MILLS OUT OF SERVICE   |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 10/27/1983 | 22:29 | 12/31/1983 | 24:00:00 | 1585.51 | 1800 | ANNUAL OUTAGE, EXTENDS INTO '84.   |
| 521 | 158 | Oak Creek #5 |      |     | PO | 1/1/1984   | 0:00  | 2/13/1984  | 9:01     | 1041.01 | 1800 | ANNUAL OUTAGE. EVENT IS FROM '83, EVENT NUMBER 110, ACTUAL STARTIME 10/27/83 22:29 |
| 521 | 158 | Oak Creek #5 | 000* | 100 | D1 | 2/14/1984  | 4:00  | 2/14/1984  | 6:40     | 2.66    | 310  | 52 MILL OOS (OVERHAUL)   |

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|     |     |              |      |     |    |           |       |           |       |       |      |                               |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|-------|------|-------------------------------|
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 2/14/1984 | 6:40  | 2/15/1984 | 1:30  | 18.83 | 1850 | BOILER WATER QUALITY          |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 2/15/1984 | 1:30  | 2/15/1984 | 8:15  | 6.75  | 250  | PULV COAL FEEDERS             |
| 521 | 158 | Oak Creek #5 | 000* | 50  | D1 | 2/15/1984 | 8:15  | 2/15/1984 | 17:58 | 9.71  | 250  | PULVERIZED COAL FEEDERS       |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/15/1984 | 17:59 | 2/18/1984 | 11:48 | 65.81 | 4140 | INTER. PRESS. TURB. BEARINGS  |
| 521 | 158 | Oak Creek #5 | 000* | 125 | D1 | 2/19/1984 | 1:30  | 2/19/1984 | 23:30 | 22    | 1850 | BOILER WATER QUALITY          |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 2/19/1984 | 23:31 | 2/20/1984 | 2:00  | 2.48  | 530  | HIGH SUPERHEAT TEMPERATURES   |
| 521 | 158 | Oak Creek #5 | 000* | 125 | D1 | 2/20/1984 | 2:01  | 2/20/1984 | 6:50  | 4.81  | 340  | 52 & 53 MILLS                 |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 2/20/1984 | 6:51  | 2/21/1984 | 20:00 | 37.15 | 340  | HIGH SUPERHEAT TEMPERATURES   |
| 521 | 158 | Oak Creek #5 | 000* | 170 | D1 | 2/21/1984 | 20:00 | 2/21/1984 | 22:45 | 2.75  | 250  | PULVERIZE FEEDERS             |
| 521 | 158 | Oak Creek #5 | 000* | 160 | D1 | 2/21/1984 | 22:46 | 2/22/1984 | 6:50  | 8.06  | 260  | 52 PRIMARY AIR FAN            |
| 521 | 158 | Oak Creek #5 | 000* | 170 | D1 | 2/22/1984 | 6:51  | 2/23/1984 | 7:12  | 24.35 | 260  | 52 PRIMARY AIR FAN            |
| 521 | 158 | Oak Creek #5 | 000* | 110 | D1 | 2/23/1984 | 7:12  | 2/23/1984 | 9:50  | 2.63  | 3410 | FEEDWATER PUMP                |
| 521 | 158 | Oak Creek #5 | 000* | 170 | D1 | 2/23/1984 | 9:50  | 2/24/1984 | 1:35  | 15.75 | 260  | 52 PRIMARY AIR FAN            |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 2/24/1984 | 1:35  | 2/27/1984 | 9:10  | 79.58 | 260  | 52 PRIMARY AIR FAN            |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 2/27/1984 | 9:10  | 2/27/1984 | 19:00 | 9.83  | 410  | 51 PULVERIZED COAL FDR        |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 2/27/1984 | 19:00 | 2/29/1984 | 11:15 | 40.25 | 260  | 52 PRIMARY AIR FAN            |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 3/1/1984  | 1:30  | 3/2/1984  | 1:30  | 24    | 410  | 53 PULV COAL FEEDER           |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 3/2/1984  | 1:30  | 3/2/1984  | 1:31  | 1     | 410  | 51 PULVERIZED COAL FEEDER     |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 3/2/1984  | 1:31  | 3/2/1984  | 20:17 | 18.76 | 410  | 51 PULVERIZED COAL FEEDER     |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 3/2/1984  | 20:17 | 3/4/1984  | 22:32 | 50.25 | 1060 | FIRST REHEATER                |
| 521 | 158 | Oak Creek #5 | 000* | 75  | D1 | 3/4/1984  | 22:32 | 3/6/1984  | 1:45  | 27.21 | 410  | 51/52 PULVERIZED COAL FDRS.   |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 3/6/1984  | 1:45  | 3/6/1984  | 16:45 | 15    | 410  | 52 PULVERIZED COAL FEEDER     |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 3/6/1984  | 16:45 | 3/9/1984  | 2:00  | 57.25 | 530  | HI SUPERHEAT TEMPERATURES     |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 3/9/1984  | 2:00  | 3/10/1984 | 4:30  | 26.5  | 410  | 51/52 PULV COAL FEEDERS       |
| 521 | 158 | Oak Creek #5 | 000* | 90  | PD | 3/10/1984 | 4:30  | 3/10/1984 | 16:00 | 11.5  | 1450 | 52 LIQ RHEOSTAT PUMP          |
| 521 | 158 | Oak Creek #5 | 000* | 90  | PD | 3/10/1984 | 16:00 | 3/11/1984 | 6:10  | 14.16 | 1450 | 52 LIQ REHOSTAT PUMP          |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 3/11/1984 | 6:10  | 3/14/1984 | 1:30  | 67.33 | 410  | 51/52 PULV COAL FEEDERS       |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 3/14/1984 | 1:30  | 3/14/1984 | 13:00 | 11.5  | 410  | 51,52,55 PULV COAL FDRS       |
| 521 | 158 | Oak Creek #5 | 000* | 185 | D1 | 3/14/1984 | 13:00 | 3/15/1984 | 0:05  | 11.08 | 410  | 51&52 PULV COAL FDRS          |
| 521 | 158 | Oak Creek #5 | 000* | 120 | D1 | 3/15/1984 | 0:05  | 3/17/1984 | 13:00 | 60.91 | 4040 | HP THRUST BEARING             |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 3/17/1984 | 13:00 | 3/20/1984 | 1:45  | 60.75 | 4040 | HP THRUST BEARING             |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 3/20/1984 | 1:45  | 3/21/1984 | 1:30  | 23.75 | 410  | 51 & 52 PULV COAL FDRS        |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 3/21/1984 | 1:30  | 3/22/1984 | 14:20 | 36.83 | 410  | 51 & 52 PULV COAL FDRS        |
| 521 | 158 | Oak Creek #5 | 000* | 230 | D1 | 3/22/1984 | 14:20 | 3/24/1984 | 13:38 | 47.3  | 410  | 51 & 52 PULV COAL FDRS        |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D2 | 3/26/1984 | 14:15 | 3/26/1984 | 14:56 | 0.68  | 410  | 51 PULV COAL FDRS             |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 3/28/1984 | 4:45  | 3/28/1984 | 12:30 | 7.75  | 410  | 51 PULV COAL FDR              |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 3/29/1984 | 6:50  | 3/29/1984 | 7:25  | 0.58  | 410  | 52 PULV COAL FDR              |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 3/29/1984 | 9:00  | 3/29/1984 | 14:35 | 5.58  | 410  | 52 PULV COAL FDR              |
| 521 | 158 | Oak Creek #5 | 000* | 165 | D1 | 3/31/1984 | 13:35 | 3/31/1984 | 19:00 | 5.41  | 410  | 51 & 58 PULV COAL FDRS        |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 3/31/1984 | 19:00 | 4/1/1984  | 2:30  | 7.5   | 410  | 51 & 58 PULV COAL FDRS        |
| 521 | 158 | Oak Creek #5 | 000* | 105 | D4 | 4/1/1984  | 2:30  | 4/1/1984  | 3:30  | 1     | 1450 | 52 LIQ RHEO PUMP RED CAPACITY |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 4/1/1984  | 3:30  | 4/2/1984  | 0:45  | 21.25 | 410  | 51 & 58 PULV COAL FDRS        |
| 521 | 158 | Oak Creek #5 | 000* | 185 | D1 | 4/3/1984  | 13:55 | 4/3/1984  | 16:00 | 2.08  | 410  | 51 PULV COAL FEEDER           |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 4/3/1984  | 18:00 | 4/5/1984  | 6:45  | 36.75 | 410  | 51 & 52 PULV COAL FDRS        |
| 521 | 158 | Oak Creek #5 | 000* | 195 | D1 | 4/5/1984  | 6:45  | 4/8/1984  | 6:00  | 71.25 | 410  | 51,52 & 53 PULV COAL FDRS     |
| 521 | 158 | Oak Creek #5 | 000* | 240 | D1 | 4/8/1984  | 6:00  | 4/9/1984  | 1:00  | 19    | 410  | BURNER PROBLEMS               |

|     |     |              |      |     |    |           |       |           |       |       |      |   |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|-------|------|---|
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 4/9/1984  | 1:00  | 4/9/1984  | 5:30  | 4.5   | 410  | BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 165 | D1 | 4/9/1984  | 5:30  | 4/10/1984 | 1:15  | 19.75 | 410  | BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 4/10/1984 | 1:15  | 4/12/1984 | 1:10  | 47.91 | 410  | BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 4/12/1984 | 1:10  | 4/12/1984 | 10:00 | 8.83  | 410  | BURNER PROBLEMS 52 PULV FDR                     |
| 521 | 158 | Oak Creek #5 | 000* | 160 | D1 | 4/12/1984 | 12:30 | 4/12/1984 | 23:57 | 11.45 | 410  | BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 |      |     | MO | 4/12/1984 | 23:57 | 4/14/1984 | 3:30  | 27.55 | 4301 | TURB GOVERNING SYSTEM                           |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 4/14/1984 | 3:30  | 4/15/1984 | 11:13 | 31.71 | 1040 | SUPERHEATER LEAK                                |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 4/16/1984 | 1:00  | 4/16/1984 | 7:55  | 6.91  | 1850 | BOILER WATER CONDITION                          |
|     |     |              |      |     |    |           |       |           |       |       |      | BURNER PROBLEMS 55 PULV COAL FEEDER             |
| 521 | 158 | Oak Creek #5 | 000* | 165 | D1 | 4/16/1984 | 7:55  | 4/16/1984 | 11:00 | 3.08  | 410  |   |
| 521 | 158 | Oak Creek #5 | 000* | 195 | D1 | 4/16/1984 | 11:00 | 4/17/1984 | 1:30  | 14.5  | 1850 | BOILER WATER CONDITION                          |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 4/17/1984 | 1:30  | 4/17/1984 | 9:05  | 7.58  | 1850 | BOILER WATER CONDITION                          |
| 521 | 158 | Oak Creek #5 | 000* | 162 | D1 | 4/17/1984 | 9:05  | 4/17/1984 | 17:05 | 8     | 410  | BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 4/17/1984 | 17:05 | 4/18/1984 | 1:30  | 8.41  | 1850 | BLR WATER CONDITION                             |
| 521 | 158 | Oak Creek #5 | 000* | 165 | D1 | 4/18/1984 | 12:00 | 4/18/1984 | 16:30 | 4.5   | 410  | BURNER PROBLEMS 52 FDR                          |
| 521 | 158 | Oak Creek #5 | 000* | 190 | D1 | 4/23/1984 | 9:20  | 4/25/1984 | 14:10 | 52.83 | 410  | BURNER PROBLEMS 58 FEEDER                       |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 4/25/1984 | 14:10 | 4/27/1984 | 23:25 | 57.25 | 3440 | HI PRESS HTR TUBE LEAKS                         |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 4/28/1984 | 7:40  | 4/28/1984 | 11:35 | 3.91  | 410  | BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 4/28/1984 | 13:30 | 4/30/1984 | 1:00  | 35.5  | 410  | BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 219 | D1 | 5/2/1984  | 12:00 | 5/2/1984  | 13:00 | 1     | 1900 | IMPROPER BALANCE                                |
| 521 | 158 | Oak Creek #5 | 000* | 230 | D1 | 5/2/1984  | 13:00 | 5/3/1984  | 7:00  | 18    | 410  | BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 230 | D1 | 5/4/1984  | 16:00 | 5/5/1984  | 0:01  | 8.01  | 1900 | HI SUPERHEATER TEMP BLR DSGN                    |
| 521 | 158 | Oak Creek #5 | 000* | 230 | D1 | 5/9/1984  | 9:00  | 5/11/1984 | 22:45 | 61.75 | 1900 | HI SPHTR T-BLR DSGN                             |
| 521 | 158 | Oak Creek #5 | 000* | 230 | D1 | 5/11/1984 | 22:45 | 5/14/1984 | 9:00  | 58.25 | 1900 | CLN FURN LO - MIN LOAD                          |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 5/15/1984 | 7:25  | 5/17/1984 | 9:08  | 49.71 | 410  | BURN PROB 52 PULV COAL FDR                      |
|     |     |              |      |     |    |           |       |           |       |       |      | BURNER PROBLEMS 51 & 52 PULVERIZED COAL FEEDERS |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 5/17/1984 | 9:08  | 5/17/1984 | 11:45 | 2.61  | 410  |   |
|     |     |              |      |     |    |           |       |           |       |       |      | BURNER PROBLEM 52 PULV COAL FDR                 |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 5/17/1984 | 11:45 | 5/19/1984 | 7:30  | 43.75 | 410  | BURNER PROBLEM 52 FDR                           |
|     |     |              |      |     |    |           |       |           |       |       |      | BURNER PROBLEM 52 FDR                           |
| 521 | 158 | Oak Creek #5 | 000* | 190 | PD | 5/19/1984 | 7:30  | 5/20/1984 | 1:30  | 18    | 410  | REPLACEMT                                       |
| 521 | 158 | Oak Creek #5 | 000* | 190 | D1 | 5/20/1984 | 7:05  | 5/21/1984 | 12:30 | 29.41 | 410  | BURNER PROBLEM 52 PULV FDR                      |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 5/21/1984 | 12:30 | 5/25/1984 | 2:42  | 86.2  | 410  | BURNER PROBLEMS-52 PULV FDR                     |
| 521 | 158 | Oak Creek #5 |      |     | MO | 5/25/1984 | 2:42  | 5/30/1984 | 12:30 | 129.8 | 4261 | TURBINE CONTROL VALVES                          |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 5/30/1984 | 12:30 | 5/30/1984 | 17:30 | 5     | 380  | LIGHT OFF SYSTEMS                               |
| 521 | 158 | Oak Creek #5 |      |     | MO | 5/30/1984 | 17:30 | 5/31/1984 | 9:15  | 15.75 | 4261 | TURBINE CONTROL VALVES                          |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 5/31/1984 | 9:15  | 5/31/1984 | 23:00 | 13.75 | 1040 | FIRST SUPERHEATER                               |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 5/31/1984 | 23:00 | 6/1/1984  | 3:00  | 4     | 410  | OTHER BURNER PROBLEMS                           |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 6/1/1984  | 3:00  | 6/1/1984  | 5:11  | 2.18  | 1040 | FIRST SUPERHEATER                               |
| 521 | 158 | Oak Creek #5 | 000* | 120 | D1 | 6/1/1984  | 5:11  | 6/2/1984  | 1:15  | 20.06 | 1850 | BOILER WATER CONDITION                          |
| 521 | 158 | Oak Creek #5 | 000* | 190 | D1 | 6/2/1984  | 1:15  | 6/3/1984  | 7:00  | 29.75 | 410  | BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 6/3/1984  | 7:00  | 6/3/1984  | 8:20  | 1.33  | 1900 | SUPERHEATER TEMPERATURE                         |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 6/3/1984  | 8:20  | 6/3/1984  | 11:00 | 2.66  | 410  | BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 6/3/1984  | 11:00 | 6/3/1984  | 14:05 | 3.08  | 410  | BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 6/3/1984  | 14:05 | 6/3/1984  | 19:00 | 4.91  | 1900 | SUPERHEATER TEMPERATURE                         |
| 521 | 158 | Oak Creek #5 | 000* | 190 | D1 | 6/3/1984  | 19:00 | 6/4/1984  | 22:45 | 27.75 | 410  | BURNER PROBLEMS                                 |

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|     |     |              |      |     |    |           |       |           |          |        |      |                            |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|----------|--------|------|----------------------------|
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 6/4/1984  | 22:45 | 6/5/1984  | 2:45     | 4      | 410  | BURNER PROBLEMS            |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 6/5/1984  | 11:20 | 6/5/1984  | 12:58    | 1.63   | 1900 | CLN FURN-LO MIN LOAD       |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 6/5/1984  | 12:58 | 6/9/1984  | 24:00:00 | 107.03 | 4040 | BEARINGS                   |
| 521 | 158 | Oak Creek #5 |      |     | U2 | 6/10/1984 | 0:01  | 6/10/1984 | 10:45    | 10.73  | 265  | AIR PREHEATER              |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 6/10/1984 | 10:45 | 6/11/1984 | 4:52     | 18.11  | 4040 | BEARINGS                   |
| 521 | 158 | Oak Creek #5 | 000* | 100 | D1 | 6/11/1984 | 4:52  | 6/11/1984 | 14:00    | 9.13   | 1850 | BOILER WATER CONDITON      |
| 521 | 158 | Oak Creek #5 | 000* | 70  | D1 | 6/11/1984 | 14:00 | 6/12/1984 | 2:55     | 12.91  | 3310 | CONDENSATE HOTWELL PUMP 52 |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 6/12/1984 | 2:55  | 6/12/1984 | 6:15     | 3.33   | 1900 | CLN FURN-LO MIN LOAD       |
| 521 | 158 | Oak Creek #5 | 000* | 65  | D1 | 6/12/1984 | 6:15  | 6/12/1984 | 7:00     | 0.75   | 3149 | LOSS OF VACUUM             |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 6/12/1984 | 7:00  | 6/12/1984 | 19:30    | 12.5   | 1900 | CLN FURN-LO MIN LOAD       |
| 521 | 158 | Oak Creek #5 | 000* | 215 | D1 | 6/12/1984 | 19:30 | 6/13/1984 | 9:30     | 14     | 1900 | CLN FURN-LO MIN LOAD       |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 6/13/1984 | 9:30  | 6/13/1984 | 16:00    | 6.5    | 410  | BURNER PROBLEMS            |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 6/13/1984 | 21:00 | 6/14/1984 | 9:00     | 12     | 410  | BURNER PROBLEMS            |
| 521 | 158 | Oak Creek #5 | 000* | 160 | D1 | 6/14/1984 | 9:00  | 6/14/1984 | 12:00    | 3      | 410  | BURNER PROBLEMS            |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 6/14/1984 | 12:00 | 6/15/1984 | 17:39    | 29.65  | 410  | BURNER PROBLEMS            |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 6/15/1984 | 17:39 | 6/17/1984 | 2:57     | 33.3   | 1040 | SUPERHTR LEAK              |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 6/17/1984 | 2:57  | 6/17/1984 | 14:00    | 11.05  | 1850 | BLR WATER CONDITION        |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 6/17/1984 | 14:00 | 6/18/1984 | 13:00    | 23     | 1900 | CLN FURN-LO MIN LOAD       |
| 521 | 158 | Oak Creek #5 | 000* | 170 | D1 | 6/18/1984 | 13:00 | 6/18/1984 | 23:00    | 10     | 410  | BURNER PROBLEMS            |
| 521 | 158 | Oak Creek #5 | 000* | 185 | D1 | 6/18/1984 | 23:00 | 6/21/1984 | 2:00     | 51     | 410  | BURNER PROBLEMS            |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 6/21/1984 | 2:00  | 6/22/1984 | 19:00    | 41     | 1900 | CLN FURN LO MIN LOAD       |
| 521 | 158 | Oak Creek #5 | 000* | 185 | D1 | 6/22/1984 | 19:00 | 6/23/1984 | 4:15     | 9.25   | 410  | OTHER BURNER PROBLEMS      |
| 521 | 158 | Oak Creek #5 | *    | 225 | D1 | 6/23/1984 | 4:15  | 7/3/1984  | 9:45     | 245.5  | 1900 | CLN FURN LO MIN LOAD       |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 7/3/1984  | 9:45  | 7/3/1984  | 11:54    | 2.15   | 410  | BURNER PROBLEMS            |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/3/1984  | 11:54 | 7/8/1984  | 14:01    | 122.11 | 1040 | FIRST SUPERHEATER          |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 7/8/1984  | 14:01 | 7/9/1984  | 10:20    | 20.31  | 1850 | BOILER WATER COND          |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 7/9/1984  | 10:20 | 7/10/1984 | 21:39    | 35.31  | 1900 | CLN FURN LO MIN LOAD       |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 7/10/1984 | 21:39 | 7/11/1984 | 5:39     | 8      | 1850 | BOILER WATER CONDITION.    |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/11/1984 | 5:39  | 7/11/1984 | 10:00    | 4.35   | 1060 | FIRST REHEATER             |
| 521 | 158 | Oak Creek #5 | 000* | 40  | D1 | 7/11/1984 | 10:00 | 7/11/1984 | 13:41    | 3.68   | 1050 | SECOND SUPERHEATER         |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 7/11/1984 | 13:41 | 7/13/1984 | 9:27     | 43.76  | 1050 | SECOND SUPERHEATER         |
| 521 | 158 | Oak Creek #5 | 000* | 100 | D1 | 7/14/1984 | 1:45  | 7/14/1984 | 13:20    | 11.58  | 310  | PULVERIZER MILLS           |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 7/14/1984 | 13:20 | 7/17/1984 | 6:00     | 64.66  | 410  | OTHER BURNER PROBLEMS      |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 7/17/1984 | 6:00  | 7/18/1984 | 11:00    | 29     | 410  | OTHER BURNER PROBLEMS      |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 7/18/1984 | 11:00 | 7/21/1984 | 8:45     | 69.75  | 410  | OTHER BURNER PROBLEMS      |
| 521 | 158 | Oak Creek #5 | 000* | 75  | D1 | 7/21/1984 | 8:45  | 7/22/1984 | 19:45    | 35     | 3440 | HI PRESS HTR LEAK          |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 7/22/1984 | 19:45 | 7/23/1984 | 21:00    | 25.25  | 3440 | HI PRESS HTR LEAK          |
| 521 | 158 | Oak Creek #5 | 000* | 155 | D1 | 7/23/1984 | 21:00 | 7/24/1984 | 14:30    | 17.5   | 3440 | HI PRESS HTR LEAK - B SET  |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 7/24/1984 | 14:30 | 7/31/1984 | 6:00     | 159.5  | 410  | OTHER BURNER PROBLEMS      |
| 521 | 158 | Oak Creek #5 | 000* | 205 | D1 | 7/31/1984 | 6:00  | 8/2/1984  | 12:54    | 54.9   | 410  | OTHER BURNER PROBLEMS      |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 8/2/1984  | 12:54 | 8/4/1984  | 7:45     | 42.85  | 410  | OTHER BURNER PROBLEMS      |
| 521 | 158 | Oak Creek #5 | 000* | 70  | PD | 8/4/1984  | 7:45  | 8/4/1984  | 23:00    | 15.25  | 240  | PULVERIZED COAL BIN        |
| 521 | 158 | Oak Creek #5 | 000* | 215 | D1 | 8/4/1984  | 23:00 | 8/6/1984  | 12:00    | 37     | 240  | PULVERIZED COAL BIN        |
| 521 | 158 | Oak Creek #5 | 000* | 230 | D1 | 8/6/1984  | 12:00 | 8/11/1984 | 1:11     | 109.18 | 240  | PULVERIZED COAL BIN        |
| 521 | 158 | Oak Creek #5 | *    |     | U3 | 8/11/1984 | 1:11  | 8/11/1984 | 21:30    | 20.31  | 240  | PULVERIZED COAL BIN        |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 8/11/1984 | 21:30 | 8/12/1984 | 3:00     | 5.5    | 240  | PULVERIZED COAL BIN        |

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|     |     |              |      |     |    |            |       |            |       |        |      |                               |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|-------------------------------|
| 521 | 158 | Oak Creek #5 | *    |     | U3 | 8/12/1984  | 3:01  | 8/12/1984  | 10:51 | 7.83   | 240  | PULVERIZED COAL BIN           |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 8/12/1984  | 10:51 | 8/12/1984  | 21:00 | 10.14  | 1850 | BOILER WATER CONDITION        |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 8/12/1984  | 21:00 | 8/13/1984  | 10:40 | 13.66  | 1900 | CLN FURN-LO MIN LOAD          |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 8/13/1984  | 10:40 | 8/15/1984  | 2:00  | 39.33  | 1900 | CLN FURN-LO MIN LOAD          |
| 521 | 158 | Oak Creek #5 | 000* | 215 | D1 | 8/15/1984  | 2:00  | 8/16/1984  | 1:00  | 23     | 1900 | CLN FURN-LO MIN LOAD          |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 8/16/1984  | 1:00  | 8/19/1984  | 8:40  | 79.66  | 1900 | CLN FURN-LO MIN LOAD          |
| 521 | 158 | Oak Creek #5 | 000* | 170 | D1 | 8/19/1984  | 8:40  | 8/19/1984  | 14:20 | 5.66   | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 8/19/1984  | 14:20 | 8/19/1984  | 16:30 | 2.16   | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 8/19/1984  | 16:30 | 8/20/1984  | 21:07 | 28.61  | 1900 | CLN FURN-LO MIN LOAD          |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 8/20/1984  | 21:07 | 8/23/1984  | 11:48 | 62.68  | 1040 | SUPERHEAT LEAK                |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 8/23/1984  | 11:48 | 8/24/1984  | 1:00  | 13.2   | 1850 | BOILER WATER CONDITION        |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 8/24/1984  | 1:00  | 8/25/1984  | 1:00  | 24     | 1900 | CLN FURN                      |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 8/25/1984  | 1:00  | 8/26/1984  | 1:00  | 24     | 1900 | CLN FURN                      |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 8/26/1984  | 1:00  | 8/27/1984  | 12:10 | 35.16  | 1900 | CLN FURN-LO MIN LOAD          |
| 521 | 158 | Oak Creek #5 | 000* | 190 | D1 | 8/27/1984  | 12:10 | 8/28/1984  | 7:20  | 19.16  | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 8/28/1984  | 7:20  | 9/2/1984   | 11:50 | 124.5  | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 75  | D1 | 9/2/1984   | 11:50 | 9/3/1984   | 21:45 | 33.91  | 1480 | OTHER ID FAN PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 9/3/1984   | 21:45 | 9/7/1984   | 23:42 | 97.95  | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | *    |     | U3 | 9/7/1984   | 23:42 | 9/9/1984   | 0:15  | 24.55  | 3131 | AIR EJECTOR PIPING & VLVS     |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 9/9/1984   | 0:15  | 9/10/1984  | 1:00  | 24.75  | 1850 | BOILER WATER CONDITION        |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 9/10/1984  | 1:00  | 9/10/1984  | 10:20 | 9.33   | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 9/10/1984  | 10:20 | 9/10/1984  | 13:40 | 3.33   | 1850 | BOILER WATER CONDITION        |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 9/10/1984  | 13:40 | 9/10/1984  | 17:10 | 3.5    | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/10/1984  | 17:10 | 9/13/1984  | 20:18 | 75.13  | 1050 | SECOND SUPERHEATER            |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 9/13/1984  | 20:18 | 9/14/1984  | 6:00  | 9.7    | 1850 | BOILER WATER CONDITION        |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 9/14/1984  | 6:00  | 9/14/1984  | 10:30 | 4.5    | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 9/14/1984  | 10:30 | 9/14/1984  | 15:00 | 4.5    | 1900 | CLN FURN                      |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 9/14/1984  | 15:00 | 9/22/1984  | 3:00  | 180    | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 160 | D1 | 9/22/1984  | 3:00  | 9/22/1984  | 7:30  | 4.5    | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 187 | D1 | 9/22/1984  | 7:30  | 9/22/1984  | 21:30 | 14     | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 9/22/1984  | 21:30 | 9/30/1984  | 11:03 | 181.55 | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/30/1984  | 11:03 | 9/30/1984  | 18:33 | 7.5    | 1070 | SECOND REHEATER               |
| 521 | 158 | Oak Creek #5 | *    | 125 | D1 | 9/30/1984  | 18:33 | 10/1/1984  | 9:00  | 14.45  | 3440 | HI PRESS HTR TUBE LEAKS       |
| 521 | 158 | Oak Creek #5 | 000* | 140 | D1 | 10/1/1984  | 9:00  | 10/2/1984  | 22:45 | 37.75  | 3440 | HI PRESS HTR TUBE LEAKS       |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 10/2/1984  | 22:45 | 10/4/1984  | 18:40 | 43.91  | 3440 | HI PRESS HTR TUBE LEAKS       |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 10/4/1984  | 18:40 | 10/6/1984  | 3:00  | 32.33  | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 10/6/1984  | 3:00  | 10/7/1984  | 15:00 | 36     | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 10/7/1984  | 15:00 | 10/16/1984 | 2:06  | 203.1  | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/16/1984 | 2:06  | 10/16/1984 | 21:58 | 19.86  | 3644 | PROTECTION DEVICES            |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 10/16/1984 | 21:58 | 10/18/1984 | 9:00  | 35.03  | 3440 | HI PRESSURE HTR TUBE LEAKS    |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 10/18/1984 | 9:00  | 10/20/1984 | 1:15  | 40.25  | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 10/20/1984 | 1:15  | 10/21/1984 | 14:20 | 37.08  | 3499 | OTHER FDWTR SYS PROBLEMS      |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 10/21/1984 | 14:20 | 10/26/1984 | 9:25  | 115.08 | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 10/26/1984 | 9:25  | 10/27/1984 | 2:45  | 17.33  | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D2 | 10/27/1984 | 2:45  | 10/27/1984 | 7:30  | 4.75   | 410  | OTHER BURNER PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 70  | D1 | 10/27/1984 | 7:30  | 10/27/1984 | 14:00 | 6.5    | 8560 | ELECTROSTATIC PRECIP PROBLEMS |

WEFCO 40021



|     |     |              |      |     |    |            |       |            |          |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|--------|------|---|
| 521 | 158 | Oak Creek #5 | 000* | 180 | D2 | 10/27/1984 | 14:00 | 10/27/1984 | 21:20    | 7.33   | 410  | OTHER BURNER PROBLEMS                   |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 10/27/1984 | 21:20 | 10/28/1984 | 5:00     | 7.66   | 410  | OTHER BURNER PROBLEMS                   |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D2 | 10/28/1984 | 5:00  | 10/28/1984 | 6:45     | 1.75   | 410  | OTHER BURNER PROBLEMS                   |
| 521 | 158 | Oak Creek #5 | 000* | 70  | D2 | 10/28/1984 | 6:45  | 10/28/1984 | 19:15    | 12.5   | 8560 | ELECTROSTATIC PRECIP PROBLEMS           |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 10/28/1984 | 19:15 | 10/31/1984 | 19:35    | 72.33  | 410  | OTHER BURNER PROBLEMS                   |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/31/1984 | 19:35 | 11/11/1984 | 13:28    | 257.88 | 1040 | FIRST SUPERHEATER                       |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 11/14/1984 | 14:00 | 11/18/1984 | 17:15    | 99.25  | 390  | BURNER WINDBOXES & DAMPERS              |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 11/18/1984 | 17:15 | 11/18/1984 | 21:25    | 4.16   | 360  | #53 PULV COAL FDR OUT                   |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 11/18/1984 | 21:25 | 11/28/1984 | 11:20    | 229.91 | 390  | BURNER WINDBOXES & DAMPERS              |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 11/28/1984 | 11:20 | 11/29/1984 | 18:35    | 31.25  | 3440 | HI PRESS HTR TUBE LEAKS                 |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 11/29/1984 | 18:35 | 11/30/1984 | 22:07    | 27.53  | 390  | BURNER WINDBOXES & DAMPERS              |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 11/30/1984 | 22:07 | 12/2/1984  | 22:25    | 72.3   | 1040 | FIRST SUPERHEATER                       |
| 521 | 158 | Oak Creek #5 | 000* | 155 | D1 | 12/3/1984  | 8:25  | 12/3/1984  | 21:00    | 12.58  | 1850 | BOILER WATER CONDITION                  |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 12/4/1984  | 3:00  | 12/4/1984  | 11:00    | 8      | 1850 | BOILER WATER CONDITION                  |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 12/4/1984  | 11:00 | 12/8/1984  | 8:43     | 93.71  | 390  | BURNER WINDBOXES & DAMPERS              |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/8/1984  | 8:43  | 12/14/1984 | 21:54    | 157.18 | 1005 | GENERATING TUBES                        |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 12/16/1984 | 17:20 | 12/17/1984 | 16:15    | 22.91  | 3440 | HI PRESS HTR TUBE LEAK                  |
| 521 | 158 | Oak Creek #5 | 000* | 205 | D1 | 12/17/1984 | 16:15 | 12/20/1984 | 13:45    | 69.5   | 1900 | C.N FURN                                |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 12/20/1984 | 13:45 | 12/25/1984 | 6:00     | 112.25 | 1990 | BOILER PERFORMANCE TESTING              |
| 521 | 158 | Oak Creek #5 | 000* | 78  | D1 | 12/25/1984 | 6:00  | 12/25/1984 | 15:00    | 9      | 340  | PULVERIZER PROBLEMS                     |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 12/25/1984 | 15:00 | 12/28/1984 | 14:55    | 71.91  | 1990 | BOILER PERFORMANCE TESTING              |
| 521 | 158 | Oak Creek #5 | *    |     | U3 | 12/28/1984 | 14:58 | 12/31/1984 | 24:00:00 | 81.03  | 1040 | FIRST SUPERHEATER. CONTINUES INTO 1985. |
| 521 | 158 | Oak Creek #5 |      |     | U3 | 1/1/1985   | 0:01  | 1/2/1985   | 1:54     | 25.88  | 1040 | FIRST SUPERHEATER                       |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 1/2/1985   | 11:30 | 1/3/1985   | 0:30     | 13     | 340  | PULVERIZER PROBLEMS                     |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 1/3/1985   | 8:00  | 1/6/1985   | 16:30    | 80.5   | 360  | BURNERS (#56 PULV COAL FDR)             |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 1/6/1985   | 16:30 | 1/6/1985   | 23:00    | 6.5    | 1900 | CLEAN FURNACE                           |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D2 | 1/6/1985   | 23:00 | 1/8/1985   | 2:45     | 27.75  | 1999 | UNIT CONDITION                          |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 1/8/1985   | 2:45  | 1/13/1985  | 3:00     | 120.25 | 360  | FEEDER PROBLEM-56 PULV FDR              |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D2 | 1/13/1985  | 3:00  | 1/14/1985  | 18:45    | 39.75  | 1999 | UNIT CONDITIONS                         |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D2 | 1/14/1985  | 18:45 | 1/17/1985  | 22:18    | 75.55  | 1999 | UNIT CONDITIONS                         |
| 521 | 158 | Oak Creek #5 |      |     | U2 | 1/17/1985  | 22:18 | 1/19/1985  | 10:18    | 36     | 1060 | FIRST REHEATER TUBE LEAKS               |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 1/20/1985  | 6:00  | 1/23/1985  | 1:00     | 67     | 3440 | HI PRESSURE HTR TUBE LEAK               |
| 521 | 158 | Oak Creek #5 | 000* | 42  | D1 | 1/23/1985  | 10:56 | 1/24/1985  | 3:00     | 16.06  | 9270 | WET COAL                                |
| 521 | 158 | Oak Creek #5 | 000* | 55  | D1 | 1/24/1985  | 3:00  | 1/25/1985  | 2:30     | 23.5   | 250  | PULVERIZER FEEDER                       |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 1/25/1985  | 2:30  | 1/27/1985  | 7:35     | 53.08  | 1999 | UNIT CONDITIONS                         |
| 521 | 158 | Oak Creek #5 | 000* | 55  | D4 | 1/27/1985  | 7:35  | 1/27/1985  | 17:00    | 9.41   | 9320 | OTHER EXTERNAL PROBLEMS                 |
| 521 | 158 | Oak Creek #5 | 000* | 225 | D1 | 1/28/1985  | 10:00 | 1/30/1985  | 10:30    | 48.5   | 1999 | UNIT CONDITIONS                         |
| 521 | 158 | Oak Creek #5 | 000* | 154 | D1 | 1/30/1985  | 10:30 | 1/30/1985  | 23:59    | 13.48  | 310  | PULVERIZER MILLS                        |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 2/1/1985   | 19:00 | 2/7/1985   | 10:45    | 135.75 | 1999 | UNIT CONDITIONS                         |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 2/7/1985   | 10:45 | 2/7/1985   | 17:15    | 6.5    | 360  | OTHER BUNER PROBLEMS                    |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 2/7/1985   | 17:15 | 2/8/1985   | 10:00    | 16.75  | 1999 | UNIT CONDITIONS                         |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 2/8/1985   | 10:00 | 2/8/1985   | 12:30    | 2.5    | 3440 | HI PRESS TUBE LEAKS                     |
| 521 | 158 | Oak Creek #5 | 000* | 90  | D1 | 2/8/1985   | 12:30 | 2/8/1985   | 15:54    | 3.4    | 3440 | HI PRESS TUBE LEAKS                     |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/8/1985   | 15:54 | 2/9/1985   | 13:30    | 21.6   | 3440 | HI PRESS HTR TUBE LEAK                  |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/9/1985   | 13:30 | 2/10/1985  | 8:23     | 18.88  | 1040 | FIRST SUPERHEATER                       |

|     |     |              |      |     |    |           |       |           |       |         |      |                                 |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|---------|------|---------------------------------|
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 2/11/1985 | 14:00 | 2/12/1985 | 3:00  | 13      | 1999 | UNIT CONDITIONS                 |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 2/12/1985 | 8:00  | 2/13/1985 | 6:50  | 22.83   | 1999 | UNIT CONDITIONS                 |
| 521 | 158 | Oak Creek #5 | 000* | 90  | D1 | 2/13/1985 | 6:50  | 2/14/1985 | 1:00  | 18.16   | 890  | BOTTOM ASH SYSTEMS              |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 2/14/1985 | 12:00 | 2/23/1985 | 18:50 | 222.83  | 1999 | UNIT CONDITIONS                 |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 2/23/1985 | 18:50 | 2/25/1985 | 9:30  | 38.66   | 3440 | HIGH PRESSURE HTR TUBE LEAKS    |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 2/28/1985 | 13:00 | 3/6/1985  | 8:47  | 139.78  | 1999 | UNIT CONDITIONS                 |
| 521 | 158 | Oak Creek #5 | 000* | 204 | D1 | 3/6/1985  | 8:47  | 3/6/1985  | 23:00 | 14.21   | 410  | OTHER BURNER PROBLEMS           |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 3/6/1985  | 23:00 | 3/11/1985 | 17:45 | 114.75  | 1999 | UNIT CONDITIONS                 |
| 521 | 158 | Oak Creek #5 | 000* | 155 | D1 | 3/11/1985 | 17:45 | 3/12/1985 | 21:30 | 27.75   | 3440 | 6B HI PRESS HTR TUBE LEAK       |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 3/12/1985 | 21:30 | 3/17/1985 | 12:09 | 110.65  | 1999 | UNIT CONDITIONS                 |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 3/17/1985 | 12:09 | 3/22/1985 | 12:36 | 120.45  | 1150 | SECOND SUPERHEATER              |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 3/25/1985 | 11:00 | 3/27/1985 | 17:50 | 54.83   | 1999 | UNIT CONDITIONS                 |
| 521 | 158 | Oak Creek #5 | 000* | 195 | D1 | 3/27/1985 | 17:50 | 3/27/1985 | 19:00 | 1.16    | 920  | A & B FLYASH SYS OUT FOR REPAIR |
| 521 | 158 | Oak Creek #5 | 000* | 235 | D1 | 3/27/1985 | 19:00 | 3/28/1985 | 16:50 | 21.83   | 1999 | UNIT CONDITIONS                 |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 3/28/1985 | 16:50 | 3/29/1985 | 1:00  | 8.16    | 920  | A-FLYASH SYSTEM PROBLEMS        |
| 521 | 158 | Oak Creek #5 |      | 215 | D1 | 3/29/1985 | 17:00 | 4/2/1985  | 1:29  | 80.48   | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 158 | Oak Creek #5 |      |     | MO | 4/2/1985  | 1:24  | 4/6/1985  | 12:00 | 106.6   | 1005 | GENERATING TUBE                 |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 4/2/1985  | 0:44  | 4/2/1985  | 1:02  | 0.3     | 1000 | TRIP - UNKNOWN                  |
| 521 | 158 | Oak Creek #5 |      |     | SF | 4/6/1985  | 12:00 | 4/9/1985  | 2:35  | 62.58   | 1005 | GENERATING TUBE                 |
| 521 | 158 | Oak Creek #5 | 000* | 155 | D1 | 4/9/1985  | 2:35  | 4/10/1985 | 10:31 | 31.93   | 3440 | HI PRESS HTR TUBE LEAKS         |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 4/10/1985 | 10:31 | 4/12/1985 | 17:31 | 55      | 3440 | HI PRESS HTR TUBE LEAKS         |
| 521 | 158 | Oak Creek #5 | 000* | 40  | D1 | 4/13/1985 | 4:45  | 4/13/1985 | 13:30 | 8.75    | 265  | AIR PREHEATER PROBLEMS          |
| 521 | 158 | Oak Creek #5 | 000* | 57  | D1 | 4/13/1985 | 13:30 | 4/15/1985 | 19:25 | 53.91   | 1470 | ID FANS MTRS & DRIVES           |
| 521 | 158 | Oak Creek #5 | 000* | 135 | D1 | 4/15/1985 | 19:25 | 4/16/1985 | 6:00  | 10.58   | 3440 | HI PRESS HTR TUBE LEAKS         |
| 521 | 158 | Oak Creek #5 | 000* | 215 | D1 | 4/16/1985 | 6:00  | 4/25/1985 | 0:01  | 210.01  | 1999 | UNIT CONDITONS                  |
| 521 | 158 | Oak Creek #5 | 000* | 213 | D1 | 4/25/1985 | 0:01  | 4/27/1985 | 19:50 | 67.81   | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 158 | Oak Creek #5 | 000* | 125 | D1 | 4/27/1985 | 19:50 | 4/29/1985 | 4:20  | 32.5    | 3440 | HI PRESS HTR TUBE LEAK          |
| 521 | 158 | Oak Creek #5 | 000* | 213 | D1 | 4/29/1985 | 4:20  | 5/3/1985  | 11:15 | 102.91  | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 158 | Oak Creek #5 | 000* | 80  | D1 | 5/3/1985  | 11:15 | 5/3/1985  | 19:45 | 8.5     | 310  | PULVERIZER MILLS                |
| 521 | 158 | Oak Creek #5 | 000* | 213 | D1 | 5/3/1985  | 19:45 | 5/18/1985 | 1:46  | 342.01  | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 5/18/1985 | 1:46  | 5/21/1985 | 1:37  | 71.85   | 1050 | SUPERHEATER LEAK                |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 5/22/1985 | 10:00 | 5/23/1985 | 10:00 | 24      | 1455 | 52 ID FAN                       |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 5/23/1985 | 16:15 | 5/25/1985 | 3:40  | 35.41   | 3440 | HI PRESS HTR TUBE LEAK          |
| 521 | 158 | Oak Creek #5 | 000* | 188 | D1 | 5/28/1985 | 9:45  | 5/30/1985 | 3:00  | 41.25   | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 5/30/1985 | 3:00  | 6/3/1985  | 20:20 | 113.33  | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 6/3/1985  | 20:20 | 6/5/1985  | 13:00 | 40.66   | 4609 | OTHER EXCITER PROBLEMS          |
| 521 | 158 | Oak Creek #5 |      |     | MO | 6/5/1985  | 13:00 | 6/7/1985  | 8:59  | 43.98   | 1070 | SECOND REHEATER                 |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 6/7/1985  | 23:47 | 6/9/1985  | 6:44  | 30.95   | 1070 | SECOND REHEATER                 |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 6/9/1985  | 8:08  | 6/12/1985 | 13:22 | 77.23   | 1050 | SUPERHEATER LEAK                |
| 521 | 158 | Oak Creek #5 | 000* | 140 | D1 | 6/26/1985 | 9:18  | 6/27/1985 | 19:17 | 33.98   | 1070 | SECOND REHEATER                 |
| 521 | 158 | Oak Creek #5 |      |     | PO | 6/27/1985 | 19:17 | 8/15/1985 | 5:50  | 1162.55 | 1800 | ANNUAL OUTAGE                   |
| 521 | 158 | Oak Creek #5 | 000* | 55  | D1 | 8/15/1985 | 14:45 | 8/16/1985 | 8:25  | 17.66   | 310  | MILL PROBLEMS - #51 & #53       |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 8/16/1985 | 8:25  | 8/19/1985 | 10:26 | 74.01   | 880  | FLYASH HANDLING                 |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 8/23/1985 | 14:00 | 8/27/1985 | 17:05 | 99.08   | 1999 | UNIT CONDITIONS                 |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 8/27/1985 | 17:05 | 8/28/1985 | 14:07 | 21.03   | 1040 | FIRST SUPERHEATER               |
| 521 | 158 | Oak Creek #5 | 000* | 80  | D1 | 9/3/1985  | 4:40  | 9/3/1985  | 9:00  | 4.33    | 250  | PULVERIZER FEEDERS              |



|     |     |              |      |     |    |            |       |            |          |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|--------|------|---|
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 9/4/1985   | 4:00  | 9/6/1985   | 15:00    | 59     | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 75  | D1 | 9/6/1985   | 15:00 | 9/7/1985   | 15:00    | 24     | 310  | MILL PROBLEMS   |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 9/7/1985   | 15:00 | 9/14/1985  | 7:30     | 160.5  | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 75  | PD | 9/14/1985  | 7:30  | 9/14/1985  | 23:00    | 15.5   | 310  | PULVERIZER MILLS                                      |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 9/14/1985  | 23:00 | 9/18/1985  | 17:45    | 90.75  | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 9/18/1985  | 17:45 | 9/22/1985  | 23:11    | 101.43 | 1040 | FIRST SUPERHEATER                                     |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 9/24/1985  | 0:01  | 9/24/1985  | 17:20    | 17.31  | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 142 | D1 | 9/24/1985  | 17:20 | 9/24/1985  | 19:30    | 2.16   | 8560 | ELECTROSTATIC PRECIP PROBLEMS                         |
| 521 | 158 | Oak Creek #5 | *    | 220 | D1 | 9/24/1985  | 19:30 | 10/1/1985  | 17:08    | 165.63 | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 |      |     | MO | 10/1/1985  | 17:08 | 10/3/1985  | 10:26    | 41.3   | 1070 | SECOND REHEATER                                       |
| 521 | 158 | Oak Creek #5 |      |     | MO | 10/3/1985  | 12:14 | 10/4/1985  | 4:54     | 16.66  | 4290 | HYDRAULIC SYSTEM PUMPS                                |
| 521 | 158 | Oak Creek #5 | 000* | 195 | D1 | 10/5/1985  | 9:30  | 10/7/1985  | 1:45     | 40.25  | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 10/8/1985  | 11:00 | 10/11/1985 | 20:50    | 81.83  | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 10/11/1985 | 20:50 | 10/15/1985 | 13:59    | 89.15  | 1050 | SUPERHEAT LEAK  |
| 521 | 158 | Oak Creek #5 | 000* | 205 | D1 | 10/17/1985 | 7:45  | 10/17/1985 | 16:00    | 8.25   | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 10/17/1985 | 16:00 | 10/21/1985 | 4:10     | 84.16  | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 80  | D1 | 10/21/1985 | 4:10  | 10/21/1985 | 5:40     | 1.5    | 920  | A-FLYASH SYSTEM HI ASH LEVELS                         |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 10/21/1985 | 5:40  | 10/21/1985 | 23:30    | 17.83  | 920  | FLYASH EQUIPMENT BREAKDOWN                            |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 10/21/1985 | 23:30 | 10/24/1985 | 10:06    | 58.6   | 3440 | HI PRESS FEED WTR HEATER                              |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 10/26/1985 | 22:27 | 10/31/1985 | 19:24    | 116.95 | 1050 | SUPERHEATER LEAK                                      |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 11/1/1985  | 2:00  | 11/1/1985  | 20:00    | 18     | 3440 | HI PRESSURE FEEDWATER HEATER                          |
| 521 | 158 | Oak Creek #5 | 000* | 195 | D1 | 11/1/1985  | 20:00 | 11/2/1985  | 11:54    | 15.9   | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 70  | D1 | 11/2/1985  | 11:54 | 11/2/1985  | 20:20    | 8.43   | 9270 | WET COAL  |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 11/2/1985  | 20:20 | 11/4/1985  | 13:05    | 40.75  | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 77  | D1 | 11/4/1985  | 13:05 | 11/4/1985  | 18:00    | 4.91   | 880  | FLYASH HANDLING                                       |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 11/4/1985  | 18:00 | 11/18/1985 | 13:50    | 331.83 | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 190 | D1 | 11/18/1985 | 15:50 | 11/18/1985 | 16:30    | 0.66   | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 11/18/1985 | 16:30 | 11/20/1985 | 20:45    | 52.25  | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 165 | D1 | 11/20/1985 | 20:45 | 11/21/1985 | 0:30     | 3.75   | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 11/21/1985 | 0:30  | 11/26/1985 | 18:20    | 137.83 | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 125 | D1 | 11/26/1985 | 18:20 | 12/2/1985  | 21:30    | 171.16 | 3440 | HI PRESS HTR TUBE LEAK                                |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 12/2/1985  | 21:30 | 12/27/1985 | 2:05     | 580.58 | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 |      |     | MO | 12/27/1985 | 2:05  | 12/29/1985 | 22:50    | 68.75  | 8560 | ELECTROSTATIC PRECIP PROBLEMS                         |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 12/31/1985 | 7:58  | 12/31/1985 | 24:00:00 | 16.03  | 90   | FUEL BIN EXPLOSION                                    |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 1/1/1986   | 0:01  | 1/5/1986   | 17:35    | 113.56 | 90   | FUEL BIN EXPLOSION. EVENT STARTED 12/31/85 @ 7:58 AM. |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 1/6/1986   | 22:47 | 1/7/1986   | 6:18     | 7.51   | 880  | FLYASH SYSTEM PROBLEMS                                |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 1/7/1986   | 21:00 | 1/9/1986   | 7:34     | 34.56  | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 1/9/1986   | 7:34  | 1/10/1986  | 10:20    | 26.76  | 3440 | HI PRESS FEEDWATER HEATER                             |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 1/10/1986  | 10:20 | 1/11/1986  | 16:45    | 30.41  | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 195 | D1 | 1/11/1986  | 16:45 | 1/11/1986  | 18:00    | 1.25   | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 1/11/1986  | 18:00 | 1/21/1986  | 15:30    | 237.5  | 1999 | UNIT CONDITIONS                                       |
| 521 | 158 | Oak Creek #5 | 000* | 185 | D1 | 1/21/1986  | 15:30 | 1/22/1986  | 3:10     | 11.66  | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 158 | Oak Creek #5 | 000* | 205 | D1 | 1/24/1986  | 9:20  | 1/24/1986  | 16:50    | 7.5    | 8560 | ELECTROSTATIC PRECIP PROBLEMS                         |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 1/24/1986  | 16:50 | 2/5/1986   | 0:09     | 271.31 | 1005 | GENERATING TUBE LEAK                                  |
| 521 | 158 | Oak Creek #5 | 000* | 60  | D1 | 2/5/1986   | 7:00  | 2/5/1986   | 18:00    | 11     | 1470 | ID FANS MOTORS AND DRIVES                             |



|     |     |              |      |     |    |           |       |           |          |         |      |  |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|----------|---------|------|--|
| 521 | 158 | Oak Creek #5 | 000* | 125 | D1 | 2/8/1986  | 6:06  | 2/8/1986  | 6:20     | 0.23    | 8560 | PRECIP. PROBLEMS                             |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 2/9/1986  | 19:00 | 2/9/1986  | 24:00:00 | 5       | 1999 | UNIT CONDITIONS                              |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 2/16/1986 | 6:00  | 2/18/1986 | 6:10     | 48.16   | 3440 | HI PRESSURE FEEDWATER HEATER                 |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 2/19/1986 | 4:45  | 2/19/1986 | 6:00     | 1.25    | 260  | PRIMARY AIR FAN                              |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 2/21/1986 | 6:47  | 2/23/1986 | 5:00     | 46.21   | 3440 | HI PRESSURE FDWTR HTR LEAK)                  |
| 521 | 158 | Oak Creek #5 | 000* | 190 | D1 | 2/27/1986 | 18:00 | 2/27/1986 | 22:00    | 4       | 8560 | ELECTROSTATIC PRECIP PROBLEMS                |
| 521 | 158 | Oak Creek #5 | 000* | 190 | D1 | 2/28/1986 | 7:42  | 3/1/1986  | 8:03     | 24.35   | 8560 | ELECTROSTATIC PRECIP PROBLEMS                |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 3/10/1986 | 7:52  | 3/10/1986 | 21:40    | 13.8    | 3440 | HI PRESSURE FEEDWATER HEATER                 |
| 521 | 158 | Oak Creek #5 |      |     | MO | 3/10/1986 | 21:40 | 3/14/1986 | 13:10    | 87.5    | 8560 | PRECIPITATORS FIELD GROUNDS                  |
| 521 | 158 | Oak Creek #5 |      |     | SE | 3/14/1986 | 13:10 | 3/17/1986 | 11:59    | 70.81   | 1005 | GENERATING TUBE LEAK                         |
| 521 | 158 | Oak Creek #5 | 000* | 171 | D1 | 3/20/1986 | 8:30  | 3/20/1986 | 12:45    | 4.25    | 410  | OTHER BURNER PROBLEMS                        |
| 521 | 158 | Oak Creek #5 | 000* | 165 | D1 | 3/21/1986 | 19:00 | 3/21/1986 | 22:15    | 3.25    | 410  | OTHER BURNER PROBLEMS                        |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 3/30/1986 | 10:50 | 3/30/1986 | 17:45    | 6.91    | 3440 | HI PRESSURE FDWTR HEATER                     |
| 521 | 158 | Oak Creek #5 | *    | 90  | D1 | 3/30/1986 | 17:45 | 4/1/1986  | 1:15     | 31.5    | 3440 | HI PRESSURE FDWTR HEATER                     |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 4/7/1986  | 15:53 | 4/8/1986  | 4:00     | 12.11   | 1060 | FIRST REHEATER TUBE LEAK                     |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 4/8/1986  | 4:00  | 4/13/1986 | 7:07     | 123.11  | 1040 | FIRST SUPERHEATER                            |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 4/14/1986 | 5:10  | 4/15/1986 | 0:58     | 19.79   | 1040 | FIRST SUPERHEATER                            |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 4/15/1986 | 0:58  | 4/17/1986 | 3:00     | 50.03   | 1040 | FIRST SUPERHEATER                            |
| 521 | 158 | Oak Creek #5 | *    |     | SF | 4/17/1986 | 3:00  | 4/17/1986 | 23:58    | 20.96   | 4640 | SEAL OIL SYSTEM AND SEALS                    |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 4/18/1986 | 14:17 | 4/20/1986 | 12:30    | 46.21   | 1040 | FIRST SUPERHEATER                            |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 4/20/1986 | 12:30 | 4/21/1986 | 21:44    | 33.23   | 1005 | CONVECTION TUBE                              |
| 521 | 158 | Oak Creek #5 | 000* | 90  | D1 | 4/24/1986 | 17:00 | 4/25/1986 | 21:51    | 28.85   | 4140 | A4 TURBINE BEARING LEAK                      |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 4/25/1986 | 21:51 | 4/28/1986 | 4:33     | 54.7    | 4140 | A4 TURBINE BEARING LEAK                      |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 4/28/1986 | 11:10 | 5/1/1986  | 13:03    | 73.88   | 4140 | A4 TURBINE BRG OIL LEAK                      |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 5/1/1986  | 22:06 | 5/9/1986  | 17:53    | 187.78  | 4140 | A4 TURB BRG OIL LEAK                         |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 5/10/1986 | 7:25  | 5/10/1986 | 21:24    | 13.98   | 3440 | INTERNAL LEAKAGE 7A FDWTR 2ND SET OF HEATERS |
| 521 | 158 | Oak Creek #5 | 000* | 140 | D2 | 5/11/1986 | 6:00  | 5/15/1986 | 4:05     | 94.08   | 3440 | 7A FEEDWATER HEATER                          |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D4 | 5/23/1986 | 23:05 | 5/25/1986 | 4:01     | 28.93   | 3441 | OTHER HI PRESS HTR PROBLEMS                  |
| 521 | 158 | Oak Creek #5 | 000* | 70  | D1 | 6/11/1986 | 7:45  | 6/12/1986 | 2:00     | 18.25   | 310  | PULVERIZER MILLS                             |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 6/18/1986 | 17:04 | 6/22/1986 | 19:30    | 98.43   | 1020 | CONVECTION PASS TUBE LEAK                    |
| 521 | 158 | Oak Creek #5 | 000* | 50  | D1 | 6/23/1986 | 2:05  | 6/23/1986 | 7:35     | 5.5     | 3440 | B FEEDWATER HEATER LEAKS                     |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 6/23/1986 | 7:35  | 6/23/1986 | 19:17    | 11.7    | 3440 | A&B FEEDWATER HEATER LEAKS                   |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 6/24/1986 | 9:00  | 6/25/1986 | 1:00     | 16      | 3440 | FEEDWATER HEATER LEAK                        |
| 521 | 158 | Oak Creek #5 | *    | 220 | D1 | 6/25/1986 | 1:00  | 7/2/1986  | 16:37    | 183.61  | 1999 | UNIT CONDITIONS                              |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/2/1986  | 16:37 | 7/6/1986  | 4:34     | 83.95   | 1020 | CONVECTION PASS TUBE LEAK                    |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 7/6/1986  | 12:00 | 7/7/1986  | 11:15    | 23.25   | 1050 | SECOND SUPERHEATER                           |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/10/1986 | 1:12  | 7/10/1986 | 1:52     | 0.66    | 9900 | OPERATOR ERROR                               |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/10/1986 | 1:52  | 7/11/1986 | 14:35    | 36.71   | 1040 | 1ST SUPERHEATER LEAK                         |
| 521 | 158 | Oak Creek #5 | *    |     | SF | 7/11/1986 | 14:35 | 7/13/1986 | 10:38    | 44.05   | 1040 | FIRST SUPERHEATER LEAK                       |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/13/1986 | 14:35 | 7/13/1986 | 15:07    | 0.53    | 4299 | HYDRAULIC SYSTEM PROBLEMS                    |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 7/13/1986 | 15:07 | 7/19/1986 | 4:18     | 133.18  | 1999 | UNIT CONDITIONS                              |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 7/19/1986 | 4:18  | 9/29/1986 | 13:45    | 1737.45 | 1800 | ANNUAL OUTAGE                                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/29/1986 | 13:45 | 10/5/1986 | 0:30     | 130.75  | 265  | OTHER AIR PREHEATER PROBLEMS                 |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/5/1986 | 0:30  | 10/9/1986 | 9:15     | 104.75  | 1005 | GENERATING TUBE LEAK                         |

|     |     |              |      |     |    |            |       |            |          |        |      |                               |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|--------|------|-------------------------------|
| 521 | 158 | Oak Creek #5 | *    | 80  | D1 | 10/14/1986 | 12:00 | 10/15/1986 | 2:00     | 14     | 310  | PULVERIZER MILLS              |
| 521 | 158 | Oak Creek #5 | *    | 165 | D1 | 10/15/1986 | 2:00  | 10/17/1986 | 0:04     | 46.06  | 8550 | PRECIPITATOR FOULING          |
|     |     |              |      |     |    |            |       |            |          |        |      | OTHER HYDRAULIC SYSTEM        |
| 521 | 158 | Oak Creek #5 |      |     | MO | 10/17/1986 | 0:04  | 10/19/1986 | 6:32     | 54.46  | 4299 | PROBLEMS                      |
| 521 | 158 | Oak Creek #5 |      |     | MO | 10/21/1986 | 1:22  | 10/23/1986 | 12:00    | 58.63  | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 158 | Oak Creek #5 |      |     | MO | 10/23/1986 | 12:00 | 11/11/1986 | 13:21    | 457.35 | 1510 | FLUEGAS DUCTS                 |
| 521 | 158 | Oak Creek #5 | *    | 125 | D1 | 11/13/1986 | 3:00  | 11/15/1986 | 18:50    | 63.83  | 8560 | PRECIPITATOR PROBLEM          |
| 521 | 158 | Oak Creek #5 |      |     | MO | 11/15/1986 | 18:50 | 11/16/1986 | 11:52    | 17.03  | 8560 | PRECIPITATOR INSPECTION       |
| 521 | 158 | Oak Creek #5 | *    | 100 | D1 | 11/17/1986 | 2:15  | 11/24/1986 | 16:55    | 182.66 | 8560 | PRECIPITATOR PROBLEMS         |
| 521 | 158 | Oak Creek #5 | *    | 65  | D1 | 11/24/1986 | 16:55 | 11/27/1986 | 2:00     | 57.08  | 340  | COAL LEVELS                   |
| 521 | 158 | Oak Creek #5 | *    | 100 | D1 | 11/27/1986 | 2:00  | 12/1/1986  | 12:00    | 130    | 8560 | PRECIPITATOR PROBLEM          |
| 521 | 158 | Oak Creek #5 | *    | 190 | D1 | 12/1/1986  | 12:00 | 12/4/1986  | 21:40    | 81.66  | 8560 | PRECIPITATOR PROBLEM          |
| 521 | 158 | Oak Creek #5 | *    | 100 | D1 | 12/4/1986  | 21:40 | 12/4/1986  | 23:48    | 2.13   | 250  | PULVERIZED FEEDER PROBLEMS    |
| 521 | 158 | Oak Creek #5 | *    | 190 | D1 | 12/4/1986  | 23:48 | 12/6/1986  | 14:54    | 39.09  | 8560 | PRECIPITATOR PROBLEM          |
| 521 | 158 | Oak Creek #5 | *    | 60  | D1 | 12/6/1986  | 14:54 | 12/7/1986  | 15:00    | 24.1   | 340  | COAL LEVELS                   |
| 521 | 158 | Oak Creek #5 | *    | 190 | D1 | 12/7/1986  | 15:00 | 12/8/1986  | 5:00     | 14     | 8560 | PRECIPITATOR PROBLEM          |
| 521 | 158 | Oak Creek #5 | *    | 60  | D1 | 12/8/1986  | 5:00  | 12/8/1986  | 6:30     | 1.5    | 340  | COAL LEVELS                   |
| 521 | 158 | Oak Creek #5 | *    | 205 | D1 | 12/9/1986  | 8:00  | 12/10/1986 | 8:00     | 24     | 1999 | UNIT CONDITIONS               |
| 521 | 158 | Oak Creek #5 | *    | 225 | D1 | 12/10/1986 | 8:00  | 12/11/1986 | 0:40     | 16.66  | 1999 | UNIT CONDITIONS               |
| 521 | 158 | Oak Creek #5 | *    | 60  | D1 | 12/11/1986 | 0:40  | 12/12/1986 | 21:45    | 45.08  | 1470 | 52 ID FAN MOTOR               |
| 521 | 158 | Oak Creek #5 |      |     | MO | 12/12/1986 | 21:45 | 12/14/1986 | 6:27     | 32.7   | 8560 | PRECIPITATOR PROBLEM          |
| 521 | 158 | Oak Creek #5 | *    | 60  | D1 | 12/14/1986 | 6:27  | 12/15/1986 | 19:57    | 37.5   | 1470 | #52 ID FAN                    |
| 521 | 158 | Oak Creek #5 |      |     | RS | 12/15/1986 | 19:57 | 12/24/1986 | 22:40    | 218.71 | 0    | Reserve Shutdown              |
| 521 | 158 | Oak Creek #5 | *    | 60  | D1 | 12/15/1986 | 19:57 | 12/24/1986 | 22:40    | 218.71 | 1470 | #52 ID FAN.                   |
| 521 | 158 | Oak Creek #5 | *    | 125 | D1 | 12/26/1986 | 7:00  | 12/26/1986 | 14:45    | 7.75   | 8560 | PRECIPITATOR PROBLEM          |
| 521 | 158 | Oak Creek #5 | *    | 200 | D1 | 12/26/1986 | 17:15 | 12/30/1986 | 12:20    | 91.08  | 8560 | PRECIPITATOR PROBLEM          |
| 521 | 158 | Oak Creek #5 | *    | 130 | D1 | 12/30/1986 | 12:20 | 12/31/1986 | 24:00:00 | 35.66  | 8560 | PRECIPITATOR PROBLEM          |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 1/1/1987   | 0:01  | 1/9/1987   | 20:46    | 212.75 | 8560 | PRECIPITATOR PROBLEM.         |
| 521 | 158 | Oak Creek #5 |      |     | MO | 1/9/1987   | 20:46 | 1/11/1987  | 1:33     | 28.78  | 520  | REPLACE SUPERHTR DRAIN VLV    |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 1/11/1987  | 1:33  | 1/19/1987  | 11:56    | 202.38 | 8560 | PRECIPITATOR PROBLEM          |
| 521 | 158 | Oak Creek #5 | 000* | 100 | D1 | 1/19/1987  | 11:56 | 1/19/1987  | 16:30    | 4.56   | 265  | AIR PREHEATER-#53 AIR HTR     |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 1/19/1987  | 16:30 | 1/28/1987  | 7:30     | 207    | 8560 | PRECIPITATOR PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 65  | D1 | 1/28/1987  | 7:30  | 1/28/1987  | 24:00:00 | 16.5   | 310  | PULVERIZER MILLS              |
| 521 | 158 | Oak Creek #5 | 000* | 65  | D1 | 1/29/1987  | 7:00  | 1/31/1987  | 23:45    | 64.75  | 310  | PULVERIZER MILLS              |
| 521 | 158 | Oak Creek #5 |      |     | RS | 1/30/1987  | 23:50 | 2/1/1987   | 22:38    | 46.8   | 0    | Reserve Shutdown              |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 1/31/1987  | 23:45 | 2/9/1987   | 9:31     | 201.76 | 8560 | PRECIPITATOR PROBLEMS         |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/9/1987   | 9:31  | 2/9/1987   | 10:39    | 1.13   | 4299 | OTHER HYDRAULIC SYS PROBLEMS  |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/9/1987   | 10:54 | 2/9/1987   | 20:54    | 10     | 4260 | MAIN STOP VALVE               |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 2/9/1987   | 20:54 | 2/13/1987  | 12:45    | 87.85  | 8560 | PRECIP PROBLEMS               |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 2/13/1987  | 12:45 | 2/19/1987  | 10:22    | 141.61 | 8560 | PRECIPITATOR PROBLEMS         |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 2/19/1987  | 10:22 | 2/19/1987  | 11:08    | 0.76   | 4299 | OTHER HYDRAULIC SYS PROBLEMS  |
| 521 | 158 | Oak Creek #5 | 000* | 65  | D1 | 2/19/1987  | 11:08 | 2/24/1987  | 14:15    | 123.11 | 1470 | #52 ID FAN MTR                |
| 521 | 158 | Oak Creek #5 | 000* | 70  | D1 | 2/24/1987  | 14:15 | 3/8/1987   | 14:00    | 287.75 | 1470 | 52 ID FAN MTR                 |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 3/8/1987   | 14:00 | 3/14/1987  | 5:00     | 135    | 8560 | PRECIP PROBLEMS               |
| 521 | 158 | Oak Creek #5 | 000* | 70  | PD | 3/14/1987  | 5:00  | 3/14/1987  | 15:23    | 10.38  | 1475 | ID FAN CONTROLS               |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 3/14/1987  | 15:23 | 4/10/1987  | 19:04    | 651.68 | 8560 | PRECIP PROBLEMS               |

|     |     |              |      |     |    |            |       |            |          |         |      |                                |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|---------|------|--------------------------------|
| 521 | 158 | Oak Creek #5 | *    |     | PO | 4/10/1987  | 19:04 | 7/17/1987  | 12:15    | 2345.18 | 1800 | ANNUAL OUTAGE                  |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/17/1987  | 22:02 | 7/20/1987  | 10:18    | 60.26   | 4289 | INTERMEDIATE PRES TRBN BRNG    |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 7/23/1987  | 10:48 | 7/25/1987  | 3:59     | 41.18   | 1040 | SUPERHEAT LEAK                 |
| 521 | 158 | Oak Creek #5 |      |     | NC | 7/25/1987  | 3:00  | 7/29/1987  | 0:25     | 93.41   | 1410 | 52 FD FAN MOTOR BRG            |
| 521 | 158 | Oak Creek #5 | 000* | 75  | D1 | 8/1/1987   | 21:25 | 8/2/1987   | 6:00     | 8.58    | 3620 | 5 MAIN TRANSFORMER             |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 8/2/1987   | 10:50 | 8/4/1987   | 23:46    | 60.93   | 1850 | SILICA-CONDENSER TUBE LEAK     |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 8/4/1987   | 23:46 | 8/5/1987   | 19:19    | 19.54   | 3110 | CONDENSER TUBE LEAK            |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 8/7/1987   | 8:30  | 8/7/1987   | 14:05    | 5.58    | 1850 | BLR WATER SILICA               |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 8/13/1987  | 20:18 | 8/17/1987  | 13:48    | 89.5    | 4260 | REMOVE STEAM STRAINERS         |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 8/20/1987  | 13:23 | 8/23/1987  | 3:02     | 61.65   | 1050 | SUPERHEAT PENDANT TUBE FAILURE |
| 521 | 158 | Oak Creek #5 |      |     | NC | 8/29/1987  | 16:30 | 8/29/1987  | 16:56    | 0.43    | 4460 | TURB OVERSPEED TRIP TEST       |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 9/7/1987   | 7:12  | 9/7/1987   | 7:42     | 0.5     | 4460 | TURBINE OVERSPEED TEST.        |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 9/10/1987  | 22:15 | 9/12/1987  | 17:45    | 43.5    | 1040 | FIRST SUPERHEATER.             |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 9/12/1987  | 17:45 | 9/13/1987  | 7:07     | 13.36   | 0    | Reserve Shutdown               |
| 521 | 158 | Oak Creek #5 | 000* | 160 | D1 | 9/14/1987  | 8:00  | 9/14/1987  | 10:15    | 2.25    | 730  | BOILER FEED WATER AND DRUM     |
| 521 | 158 | Oak Creek #5 | 000* | 190 | D1 | 9/14/1987  | 10:15 | 9/14/1987  | 11:55    | 1.66    | 1999 | LEVEL CONTROL.                 |
| 521 | 158 | Oak Creek #5 |      |     | NC | 9/17/1987  | 22:30 | 9/18/1987  | 2:25     | 3.91    | 260  | UNIT CONDITIONS.               |
| 521 | 158 | Oak Creek #5 |      |     | NC | 9/21/1987  | 23:30 | 9/22/1987  | 1:45     | 2.25    | 260  | PA FAN.                        |
| 521 | 158 | Oak Creek #5 |      |     | U2 | 10/4/1987  | 3:07  | 10/11/1987 | 11:10    | 176.05  | 4261 | PRIMARY AIR FAN.               |
| 521 | 158 | Oak Creek #5 | 000* | 125 | D1 | 10/20/1987 | 13:10 | 10/20/1987 | 14:10    | 1       | 265  | CONTROL VALVES                 |
| 521 | 158 | Oak Creek #5 |      |     | MO | 10/30/1987 | 22:31 | 11/1/1987  | 14:30    | 39.98   | 1070 | #2 AIR HTR DRIVE FAILURE       |
| 521 | 158 | Oak Creek #5 | 000* | 185 | D1 | 11/2/1987  | 17:45 | 11/2/1987  | 18:30    | 0.75    | 250  | SECOND REHEATER                |
| 521 | 158 | Oak Creek #5 |      |     | RS | 12/30/1987 | 22:38 | 12/31/1987 | 23:59    | 25.35   | 0    | PULV FDR 53 OUT OF SERVICE     |
| 521 | 158 | Oak Creek #5 |      |     | RS | 1/1/1988   | 0:01  | 1/3/1988   | 10:50    | 58.81   | 0    | Reserve Shutdown               |
| 521 | 158 | Oak Creek #5 | 000* | 202 | D1 | 1/4/1988   | 17:00 | 1/4/1988   | 19:00    | 2       | 410  | Reserve Shutdown               |
| 521 | 158 | Oak Creek #5 | 000* | 120 | D1 | 1/12/1988  | 16:25 | 1/13/1988  | 0:01     | 7.6     | 920  | OTHER BURNER PROBLEM           |
| 521 | 158 | Oak Creek #5 |      |     | U2 | 1/16/1988  | 1:18  | 1/19/1988  | 0:07     | 70.81   | 1050 | OTHER SLAG & ASH RMVL PROBLEMS |
| 521 | 158 | Oak Creek #5 |      |     | NC | 2/28/1988  | 8:40  | 2/28/1988  | 17:30    | 8.83    | 1599 | SECOND SUPERHEATER             |
| 521 | 158 | Oak Creek #5 | 000* | 160 | PD | 3/19/1988  | 6:00  | 3/19/1988  | 17:35    | 11.58   | 410  | OTHER AIR & GAS HNDLG PROBLEMS |
| 521 | 158 | Oak Creek #5 | 000* | 150 | PD | 3/19/1988  | 17:35 | 3/19/1988  | 18:45    | 1.16    | 410  | OTHER BURNER PROBLEMS          |
| 521 | 158 | Oak Creek #5 | 000* | 190 | PD | 3/19/1988  | 18:45 | 3/19/1988  | 24:00:00 | 5.25    | 410  | OTHER BURNER PROBLEMS          |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 3/31/1988  | 21:18 | 4/10/1988  | 12:23    | 231.08  | 0    | Reserve Shutdown               |
| 521 | 158 | Oak Creek #5 | 000* | 75  | D1 | 4/13/1988  | 14:15 | 4/15/1988  | 6:15     | 40      | 1470 | ID FAN MOTOR                   |
| 521 | 158 | Oak Creek #5 | 000* | 85  | D1 | 4/15/1988  | 7:50  | 4/18/1988  | 10:23    | 74.55   | 1470 | ID FAN MOTOR                   |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 5/28/1988  | 0:12  | 5/28/1988  | 6:50     | 6.63    | 4261 | CONTROL VALVES                 |
| 521 | 158 | Oak Creek #5 | *    | 75  | D1 | 7/12/1988  | 10:55 | 7/12/1988  | 15:00    | 4.08    | 3412 | FEEDWATER PUMP STEAM TURBINE   |
| 521 | 158 | Oak Creek #5 | *    | 120 | PD | 7/16/1988  | 1:30  | 7/16/1988  | 21:40    | 20.16   | 3410 | STEAM BFP BRG PROBLEM          |
| 521 | 158 | Oak Creek #5 |      |     | MO | 8/20/1988  | 17:38 | 8/22/1988  | 7:51     | 38.21   | 1040 | RADIANT SUPERHEAT LEAK         |
| 521 | 158 | Oak Creek #5 |      |     | MO | 8/26/1988  | 22:04 | 8/29/1988  | 8:34     | 58.5    | 1040 | RADIANT SUPERHEAT LEAK         |
| 521 | 158 | Oak Creek #5 |      |     | U1 | 8/30/1988  | 18:24 | 8/30/1988  | 23:12    | 4.8     | 3150 | LOSS OF VACUUM                 |
| 521 | 158 | Oak Creek #5 | *    | 120 | D1 | 9/16/1988  | 6:15  | 9/16/1988  | 18:30    | 12.25   | 340  | OTHER PULVERIZER PROBLEMS      |
| 521 | 158 | Oak Creek #5 |      |     | NC | 9/24/1988  | 23:30 | 9/25/1988  | 21:00    | 21.5    | 3441 | OTHER HP HEATER PROBLEMS       |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 10/3/1988  | 21:20 | 10/4/1988  | 9:44     | 12.4    | 880  | FLY ASH HANDLING               |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 10/13/1988 | 5:45  | 10/13/1988 | 6:12     | 0.45    | 260  | PRIMARY AIR FAN                |

|     |     |              |      |     |    |            |       |            |          |         |      |                                   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|---------|------|-----------------------------------|
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 11/8/1988  | 10:10 | 11/9/1988  | 0:01     | 13.85   | 8560 | PRECIP PERFORMANCE                |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 11/16/1988 | 13:05 | 11/16/1988 | 14:00    | 0.91    | 3344 | DEAERATOR                         |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 11/16/1988 | 14:01 | 11/24/1988 | 21:52    | 199.85  | 8560 | ELECTROSTATIC PRECIPITATOR        |
| 521 | 158 | Oak Creek #5 | 000* | 190 | D1 | 11/26/1988 | 18:25 | 11/28/1988 | 23:46    | 53.35   | 1999 | UNIT CONDITIONS BLR TEMPS         |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 11/28/1988 | 23:46 | 11/29/1988 | 11:55    | 12.15   | 3110 | CONDENSOR TUBE LEAKS              |
| 521 | 158 | Oak Creek #5 | 000* | 185 | D1 | 12/6/1988  | 17:00 | 12/6/1988  | 23:00    | 6       | 8560 | ELECTROSTATIC PRECIPITATOR        |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 12/15/1988 | 23:33 | 12/17/1988 | 1:24     | 25.85   | 1005 | GENERATING TUBES                  |
| 521 | 158 | Oak Creek #5 | 000* | 145 | D1 | 12/19/1988 | 7:10  | 12/21/1988 | 3:59     | 44.81   | 8560 | ELECTROSTATIC PRECIPITATOR        |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 12/21/1988 | 3:59  | 12/28/1988 | 0:01     | 164.03  | 0    | Reserve Shutdown                  |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 12/28/1988 | 0:01  | 12/31/1988 | 24:00:00 | 95.98   | 1800 | RENOVATION OUTAGE                 |
|     |     |              |      |     |    |            |       |            |          |         |      | ANNUAL OUTAGE STARTED 12/28/88-   |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 1/1/1989   | 0:01  | 6/17/1989  | 15:33    | 4023.53 | 1800 | 00:01                             |
| 521 | 158 | Oak Creek #5 | *    | 80  | D1 | 6/21/1989  | 11:00 | 6/26/1989  | 1:05     | 110.08  | 1470 | ID FAN PROBLEMS                   |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 6/24/1989  | 0:48  | 6/24/1989  | 4:44     | 3.93    | 4460 | TURBINE OVERSPEEDS                |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 6/25/1989  | 11:09 | 6/25/1989  | 21:41    | 10.53   | 0    | Reserve Shutdown                  |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 6/26/1989  | 1:05  | 6/26/1989  | 2:15     | 1.16    | 4700 | GENERATOR VOLTAGE CONTROLS        |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 6/26/1989  | 23:16 | 6/29/1989  | 7:30     | 56.23   | 1040 | 1ST SUPERHEATER                   |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 6/29/1989  | 7:30  | 7/2/1989   | 0:10     | 64.66   | 4260 | REMOVE STEAM STRAINERS            |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 7/2/1989   | 0:10  | 7/5/1989   | 1:05     | 72.91   | 0    | Reserve Shutdown                  |
| 521 | 158 | Oak Creek #5 | *    | 85  | D1 | 7/6/1989   | 16:25 | 7/8/1989   | 18:30    | 50.08   | 1470 | ID FAN PROBLEMS                   |
| 521 | 158 | Oak Creek #5 | *    | 180 | D1 | 7/9/1989   | 15:56 | 7/10/1989  | 2:00     | 10.06   | 1850 | BLR WATER CONDITIONS              |
| 521 | 158 | Oak Creek #5 | *    | 180 | D1 | 7/10/1989  | 15:50 | 7/10/1989  | 19:15    | 3.41    | 360  | BURNER PROBLEMS                   |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 7/11/1989  | 17:50 | 7/11/1989  | 19:40    | 1.83    | 1470 | REPLACE SCR 51 ID FAN             |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 7/15/1989  | 4:03  | 7/15/1989  | 4:46     | 0.71    | 4460 | TURBINE OVERSPEEDS                |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 7/15/1989  | 8:15  | 7/15/1989  | 11:35    | 3.33    | 1470 | ID FAN PROBLEMS                   |
| 521 | 158 | Oak Creek #5 | *    | 135 | D1 | 7/24/1989  | 17:30 | 7/25/1989  | 23:45    | 30.25   | 1470 | 52 ID FAN TRIP                    |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 8/5/1989   | 7:30  | 8/5/1989   | 13:12    | 5.7     | 1470 | 51 ID FAN MTR & DRIVES            |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 8/6/1989   | 9:00  | 8/6/1989   | 16:00    | 7       | 1470 | 51 ID FAN MTR & DRIVES            |
| 521 | 158 | Oak Creek #5 | *    | 130 | D1 | 8/10/1989  | 5:00  | 8/12/1989  | 1:00     | 44      | 1480 | 52 ID FAN COUPLING                |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 8/15/1989  | 18:30 | 8/15/1989  | 23:30    | 5       | 1470 | 51 ID FAN TESTING                 |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 8/16/1989  | 17:50 | 8/16/1989  | 21:25    | 3.58    | 1470 | 52 ID FD FAN TESTING              |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 8/17/1989  | 17:30 | 8/17/1989  | 23:30    | 6       | 1470 | 51 ID & FD FAN TESTING            |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 8/25/1989  | 13:00 | 8/26/1989  | 5:00     | 16      | 360  | BURNERS                           |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 9/1/1989   | 22:59 | 9/4/1989   | 21:54    | 70.91   | 0    | Reserve Shutdown                  |
| 521 | 158 | Oak Creek #5 | *    | 150 | D1 | 9/5/1989   | 8:45  | 9/5/1989   | 9:30     | 0.75    | 250  | PULVERIZER FEEDERS                |
| 521 | 158 | Oak Creek #5 | *    | 198 | D1 | 9/6/1989   | 14:00 | 9/7/1989   | 1:00     | 11      | 1850 | HIGH BLR WTR SILICA               |
| 521 | 158 | Oak Creek #5 | *    | 70  | D1 | 9/17/1989  | 18:15 | 9/17/1989  | 21:25    | 3.16    | 4730 | CURRENT TRANSFORMER PROBLEM       |
|     |     |              |      |     |    |            |       |            |          |         |      | CONVECTION SUPRHEAT TUBE 947349   |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 10/1/1989  | 23:03 | 10/9/1989  | 9:19     | 178.26  | 1050 | 000000                            |
|     |     |              |      |     |    |            |       |            |          |         |      | #56 PULV COAL FEEDER 000000       |
| 521 | 158 | Oak Creek #5 | *    | 180 | D1 | 10/11/1989 | 19:00 | 10/11/1989 | 21:00    | 2       | 250  | 000000                            |
|     |     |              |      |     |    |            |       |            |          |         |      | #55 PULVERIZED COAL FEEDER 900000 |
| 521 | 158 | Oak Creek #5 | *    | 180 | D1 | 10/13/1989 | 8:40  | 10/13/1989 | 16:00    | 7.33    | 250  | 000000                            |
|     |     |              |      |     |    |            |       |            |          |         |      | HIGH BLR WATER SILICA 000000      |
| 521 | 158 | Oak Creek #5 | *    | 200 | D1 | 10/16/1989 | 9:00  | 10/16/1989 | 14:40    | 5.66    | 1850 | 000000                            |

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|     |     |              |      |     |    |            |       |            |          |         |      |                                 |        |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|---------|------|---------------------------------|--------|
| 521 | 158 | Oak Creek #5 | *    | 110 | D1 | 10/16/1989 | 17:30 | 10/16/1989 | 22:59    | 5.48    | 310  | PULV MILL PROBLEM 000000        | 000000 |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 10/16/1989 | 22:59 | 10/19/1989 | 10:22    | 59.38   | 310  | PULV MILL PROBLEM 000000        | 000000 |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/24/1989 | 8:27  | 10/24/1989 | 11:57    | 3.5     | 4499 | OTHER STEAM TURBINE PROBL542000 | 000000 |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 10/28/1989 | 2:25  | 10/29/1989 | 20:04    | 41.65   | 0    | Reserve Shutdown                |        |
| 521 | 158 | Oak Creek #5 |      |     | NC | 11/10/1989 | 21:50 | 11/12/1989 | 4:30     | 30.66   | 250  | PULVERIZER FEEDER 000000        | 000000 |
| 521 | 158 | Oak Creek #5 |      |     | NC | 11/12/1989 | 4:30  | 11/12/1989 | 17:00    | 12.5    | 410  | OTHER BURNER PROBLEMS 000000    | 000000 |
| 521 | 158 | Oak Creek #5 | *    | 210 | D1 | 11/17/1989 | 14:25 | 11/18/1989 | 2:15     | 11.83   | 410  | OTHER BURNER PROBLEM 000000     | 000000 |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/8/1989  | 6:30  | 12/14/1989 | 7:05     | 144.58  | 1005 | GENERATING TUBE 000000          | 000000 |
| 521 | 158 | Oak Creek #5 | *    |     | SF | 12/14/1989 | 7:05  | 12/14/1989 | 10:03    | 2.96    | 3612 | SWITCHYARD SYSTEM 000000        | 000000 |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/14/1989 | 16:01 | 12/14/1989 | 17:46    | 1.75    | 4292 | HYDRAULIC SYSTEM FILTERS 000000 | 000000 |
| 521 | 158 | Oak Creek #5 |      |     | NC | 12/22/1989 | 22:30 | 12/24/1989 | 7:50     | 33.33   | 410  | PUL. FDR. (REPL. 52 PC FD9.000  | 000000 |
| 521 | 158 | Oak Creek #5 |      |     | NC | 1/5/1990   | 11:20 | 1/5/1990   | 12:20    | 1       | 1415 | 51 FD FAN CONTROLS              |        |
| 521 | 158 | Oak Creek #5 | *    | 40  | D1 | 1/16/1990  | 16:30 | 1/17/1990  | 2:25     | 9.91    | 110  | OTHER COAL FUEL SUPPLY PROB.    |        |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 1/17/1990  | 2:25  | 1/18/1990  | 23:45    | 45.33   | 340  | UPTHROUGH BUNKERS               |        |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 1/18/1990  | 23:45 | 1/20/1990  | 12:16    | 36.51   | 855  | PUL. VENTAGE PROBLEMS           |        |
| 521 | 158 | Oak Creek #5 | *    | 195 | D1 | 2/14/1990  | 8:00  | 2/15/1990  | 16:45    | 32.75   | 250  | BLR. DRUM RELIEF/SAFETY VALVES  |        |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 3/2/1990   | 3:04  | 3/2/1990   | 5:24     | 2.33    | 4262 | PULVERIZER FEEDERS              |        |
| 521 | 158 | Oak Creek #5 | *    | 220 | D1 | 3/5/1990   | 9:30  | 3/5/1990   | 13:20    | 3.83    | 1850 | INTERCEPT VALVES                |        |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 3/25/1990  | 1:56  | 3/25/1990  | 5:10     | 3.23    | 4262 | HIGH BLR SILICA                 |        |
| 521 | 158 | Oak Creek #5 | *    | 105 | D1 | 5/5/1990   | 8:16  | 5/5/1990   | 11:25    | 3.15    | 1470 | INTERCEPT VALVES                |        |
| 521 | 158 | Oak Creek #5 | 000* | 105 | D1 | 5/5/1990   | 11:25 | 5/5/1990   | 13:00    | 1.58    | 8550 | ID FAN MTR & DRIVE CNTRLS       |        |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 5/12/1990  | 15:00 | 5/15/1990  | 10:00    | 67      | 1475 | ELECTROSTATIC PRECIP FOULING    |        |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 5/19/1990  | 1:20  | 5/21/1990  | 6:39     | 53.31   | 1070 | ID FAN CONTROLS                 |        |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 5/25/1990  | 23:39 | 5/28/1990  | 14:53    | 63.23   | 0    | SECOND REHEATER                 |        |
| 521 | 158 | Oak Creek #5 | *    | 200 | D1 | 6/21/1990  | 6:10  | 6/21/1990  | 17:45    | 11.58   | 1850 | Reserve Shutdown                |        |
| 521 | 158 | Oak Creek #5 | *    | 214 | D1 | 7/10/1990  | 11:00 | 7/10/1990  | 13:30    | 2.5     | 3310 | BLR WTR CONDITION (SILICA)      |        |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 7/31/1990  | 13:45 | 8/19/1990  | 20:36    | 462.85  | 0    | CONDENSATE/HOTWELL PMPS         |        |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 9/7/1990   | 19:04 | 12/31/1990 | 24:00:00 | 2788.93 | 1800 | Reserve Shutdown                |        |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 1/1/1991   | 0:01  | 1/16/1991  | 18:22    | 378.35  | 1800 | PLANNED MAINTENANCE OUTAGE      |        |
| 521 | 158 | Oak Creek #5 | *    | 190 | PD | 1/16/1991  | 18:22 | 1/24/1991  | 13:13    | 186.85  | 1710 | PLANNED MAINTENANCE OUTAGE -    |        |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 1/24/1991  | 13:13 | 1/25/1991  | 1:20     | 12.11   | 3634 | STARTED 9/7/90                  |        |
| 521 | 158 | Oak Creek #5 | *    | 190 | PD | 1/25/1991  | 1:20  | 1/25/1991  | 19:35    | 18.25   | 1710 | COMBUSTION CONTROLS TUNING      |        |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 1/25/1991  | 19:35 | 1/29/1991  | 0:32     | 76.94   | 270  | 480V PROTECTION DEVICES         |        |
| 521 | 158 | Oak Creek #5 | *    | 190 | PD | 1/29/1991  | 0:32  | 1/29/1991  | 7:36     | 7.06    | 1710 | COMBUSTION CONTROLS TUNING      |        |

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|     |     |              |      |     |    |           |       |           |       |        |      |                                |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|--------------------------------|
| 521 | 158 | Oak Creek #5 | *    |     | PO | 1/29/1991 | 7:36  | 1/29/1991 | 13:42 | 6.1    | 3430 | FDWTR REGULATING VALVE         |
| 521 | 158 | Oak Creek #5 | *    | 190 | PD | 1/29/1991 | 13:42 | 2/2/1991  | 14:20 | 96.63  | 1710 | COMBUSTION CONTROLS TUNING     |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 2/2/1991  | 14:20 | 2/2/1991  | 16:33 | 2.21   | 9910 | MAINTENANCE ERROR              |
| 521 | 158 | Oak Creek #5 | *    | 190 | PD | 2/2/1991  | 16:33 | 2/3/1991  | 23:59 | 31.43  | 1710 | COMBUSTION CONTROLS TUNING     |
| 521 | 158 | Oak Creek #5 | *    | 150 | PD | 2/4/1991  | 0:01  | 2/6/1991  | 0:01  | 48     | 1710 | COMBUSTION CONTROLS TUNING     |
| 521 | 158 | Oak Creek #5 | *    | 180 | PD | 2/6/1991  | 0:01  | 2/7/1991  | 22:08 | 46.11  | 1710 | COMBUSTION CONTROLS TUNING     |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 2/7/1991  | 22:08 | 2/8/1991  | 21:30 | 23.36  | 0    | Reserve Shutdown               |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 2/16/1991 | 0:37  | 2/18/1991 | 3:12  | 50.58  | 1800 | MAINTENANCE OUTAGE             |
| 521 | 158 | Oak Creek #5 | *    | 210 | PD | 2/18/1991 | 3:12  | 2/18/1991 | 5:36  | 2.4    | 1710 | COMBUSTION CONTROLS TUNING     |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 2/18/1991 | 5:36  | 2/18/1991 | 5:55  | 0.31   | 1799 | OTHER CONTROL PROBLEMS         |
| 521 | 158 | Oak Creek #5 | *    | 210 | PD | 2/18/1991 | 5:55  | 2/21/1991 | 1:03  | 67.13  | 1710 | COMBUSTION CONTROLS TUNING     |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 2/21/1991 | 1:03  | 2/21/1991 | 1:30  | 0.45   | 4302 | HI SPEED TURB TRIP SYSTEM      |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 2/21/1991 | 6:10  | 2/21/1991 | 6:31  | 0.35   | 1799 | OTHER CONTROL PROBLEMS         |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 2/23/1991 | 18:00 | 2/23/1991 | 20:01 | 2.01   | 1799 | OTHER CONTROL PROBLEMS         |
| 521 | 158 | Oak Creek #5 | *    | 120 | D1 | 3/21/1991 | 11:15 | 3/21/1991 | 12:24 | 1.15   | 1470 | ID FAN MTRS AND DRIVES         |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 4/2/1991  | 7:15  | 4/2/1991  | 7:40  | 0.41   | 1710 | COMBUSTION CONTROLS            |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 4/5/1991  | 2:31  | 4/5/1991  | 5:31  | 3      | 4302 | HIGH SPEED TURB TRIP SYSTEM    |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 4/13/1991 | 3:17  | 4/13/1991 | 4:57  | 1.66   | 3412 | FDWTR PUMP DRIVE-STEAM TURB    |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 4/18/1991 | 0:47  | 4/18/1991 | 1:37  | 0.83   | 4302 | HI SPEED TURB TRIP SYSTEM      |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 4/26/1991 | 21:39 | 4/28/1991 | 22:35 | 48.93  | 0    | Reserve Shutdown               |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 4/29/1991 | 4:25  | 4/29/1991 | 4:45  | 0.33   | 1799 | OTHER CONTROL PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 160 | D1 | 4/30/1991 | 7:30  | 4/30/1991 | 9:30  | 2      | 3509 | 55B FDWTR HTR TWIP SYS PROBLEM |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 5/7/1991  | 2:36  | 5/7/1991  | 3:06  | 0.5    | 1710 | COMBUSTION/STM CONDITION CTRLS |
| 521 | 158 | Oak Creek #5 | 000* | 165 | D1 | 5/12/1991 | 20:30 | 5/12/1991 | 22:00 | 1.5    | 310  | PULVERIZER MILLS PROBLEM       |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 5/28/1991 | 14:28 | 5/28/1991 | 15:11 | 0.71   | 1710 | COMBUSTION CONTROLS            |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 5/28/1991 | 17:26 | 5/28/1991 | 17:59 | 0.55   | 1710 | COMBUSTION CONTROLS            |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 5/28/1991 | 19:41 | 5/28/1991 | 20:24 | 0.71   | 1710 | COMBUSTION CONTROLS            |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 6/9/1991  | 0:46  | 6/9/1991  | 9:55  | 9.14   | 0    | Reserve Shutdown               |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 6/21/1991 | 23:30 | 6/23/1991 | 21:57 | 46.45  | 0    | Reserve Shutdown               |
| 521 | 158 | Oak Creek #5 | 000* | 180 | PD | 7/4/1991  | 0:01  | 7/8/1991  | 7:45  | 103.73 | 300  | PULVERIZERS MTRS & DRIVES      |
| 521 | 158 | Oak Creek #5 | 000* | 215 | D1 | 7/11/1991 | 9:50  | 7/12/1991 | 4:00  | 18.16  | 3412 | FEEDPUMP DRIVE STM TURB        |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 7/15/1991 | 14:00 | 7/16/1991 | 5:00  | 15     | 3112 | CONDENSER TUBE FOULING         |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 7/26/1991 | 16:30 | 7/26/1991 | 23:00 | 6.5    | 310  | MILL PROBLEMS                  |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 7/28/1991 | 15:30 | 7/29/1991 | 21:00 | 29.5   | 310  | MILL PROBLEMS                  |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 8/3/1991  | 5:00  | 8/4/1991  | 18:45 | 37.75  | 310  | 53 MILL PULVERIZER             |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 8/11/1991 | 16:56 | 8/11/1991 | 18:08 | 1.2    | 9910 | MAINTENANCE ERROR              |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 8/12/1991 | 5:20  | 8/12/1991 | 7:48  | 2.46   | 250  | 53 MILL FEEDER TRIP            |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 8/23/1991 | 10:03 | 8/25/1991 | 21:28 | 59.41  | 1060 | FIRST REHEATER                 |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 8/27/1991 | 11:30 | 8/27/1991 | 19:16 | 7.76   | 1850 | BOILER WATER CONDITION         |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 8/27/1991 | 19:16 | 8/29/1991 | 17:00 | 45.73  | 1040 | FIRST SUPERHEATER              |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 8/29/1991 | 17:00 | 9/7/1991  | 18:35 | 217.58 | 4260 | MAIN STOP VALVES               |
| 521 | 158 | Oak Creek #5 | 000* | 140 | D1 | 9/9/1991  | 20:12 | 9/10/1991 | 12:00 | 15.8   | 310  | PULVERIZER MILLS               |
| 521 | 158 | Oak Creek #5 | 000* | 155 | D1 | 9/14/1991 | 12:53 | 9/14/1991 | 13:45 | 0.86   | 250  | #53 PULVERIZER FEEDER          |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 9/16/1991 | 16:30 | 9/16/1991 | 20:09 | 3.65   | 310  | PULVERIZER MILLS               |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 9/16/1991 | 20:09 | 9/17/1991 | 19:35 | 23.43  | 0    | Reserve Shutdown               |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 9/17/1991 | 19:35 | 9/18/1991 | 4:24  | 8.81   | 0    | Reserve Shutdown               |

|     |     |              |      |     |    |            |       |            |       |        |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---------------------------------|
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/18/1991  | 4:33  | 9/18/1991  | 5:39  | 1.1    | 4700 | GENERATOR VOLTAGE CONTROL       |
| 521 | 158 | Oak Creek #5 | 000* | 155 | D1 | 9/19/1991  | 6:00  | 9/19/1991  | 9:00  | 3      | 250  | PULVERIZER FEEDER               |
| 521 | 158 | Oak Creek #5 |      |     | NC | 9/28/1991  | 22:15 | 9/29/1991  | 5:30  | 7.25   | 3431 | OTHER FEEDWATER VALVES          |
| 521 | 158 | Oak Creek #5 | 000* | 140 | D1 | 10/11/1991 | 12:20 | 10/11/1991 | 15:50 | 3.5    | 250  | #53 PULVERIZER FEEDER           |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/24/1991 | 5:48  | 10/24/1991 | 6:15  | 0.45   | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/24/1991 | 6:43  | 10/24/1991 | 7:12  | 0.48   | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/25/1991 | 5:59  | 10/25/1991 | 6:26  | 0.45   | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | 000* | 110 | D1 | 10/25/1991 | 7:00  | 10/25/1991 | 11:30 | 4.5    | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 10/28/1991 | 5:30  | 10/29/1991 | 12:30 | 31     | 340  | 51 MILL-RPL RIBBON CONVEYOR     |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 11/1/1991  | 7:00  | 11/1/1991  | 18:00 | 11     | 3112 | CONDENSER TUBE FOULING          |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 11/4/1991  | 6:00  | 11/4/1991  | 7:00  | 1      | 310  | PULVERIZER MILL                 |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 11/4/1991  | 7:00  | 11/4/1991  | 8:30  | 1.5    | 370  | BURNER INSTRUMENTS & CONTROLS   |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 11/4/1991  | 8:30  | 11/4/1991  | 12:35 | 4.08   | 250  | PULVERIZER FEEDER               |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 11/28/1991 | 5:40  | 11/30/1991 | 3:58  | 46.3   | 340  | 51 MILL REPL BROKEN RIBBON CNYR |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 11/30/1991 | 3:58  | 11/30/1991 | 6:42  | 2.73   | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 11/30/1991 | 6:42  | 11/30/1991 | 12:40 | 5.96   | 340  | 51 MILL REPL BROKEN RIBBON CNVR |
| 521 | 158 | Oak Creek #5 |      |     | NC | 12/7/1991  | 0:01  | 12/8/1991  | 13:00 | 36.98  | 340  | 53 MILL EXHAUSTER               |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 12/21/1991 | 5:38  | 12/30/1991 | 0:01  | 210.38 | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 12/30/1991 | 0:01  | 12/31/1991 | 23:59 | 47.96  | 1800 | PLANNED MAINT. OUTAGE           |
|     |     |              |      |     |    |            |       |            |       |        |      | PLANNED MAINT. OUTAGE (STARTED  |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 1/1/1992   | 0:02  | 2/1/1992   | 20:46 | 764.73 | 1800 | 12/30/91 00:01)                 |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 2/1/1992   | 21:15 | 2/1/1992   | 23:13 | 1.96   | 338  | PULVERIZER CONTROL SYS          |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 2/2/1992   | 1:35  | 2/2/1992   | 3:28  | 1.88   | 9910 | MAINTENANCE ERROR               |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 2/2/1992   | 17:45 | 2/3/1992   | 18:10 | 24.41  | 4283 | LUBE OIL SYS VALVES & PIPING    |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 2/5/1992   | 9:52  | 2/5/1992   | 11:17 | 1.41   | 3412 | FEED PUMP DRIVE STEAM TURBINE   |
| 521 | 158 | Oak Creek #5 | 000* | 134 | D1 | 2/6/1992   | 7:30  | 2/6/1992   | 22:20 | 14.83  | 250  | PULVERIZER FEEDER               |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 2/9/1992   | 0:58  | 2/9/1992   | 4:04  | 3.1    | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 2/14/1992  | 0:05  | 2/14/1992  | 18:07 | 18.03  | 9910 | MAINT. ERROR                    |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 2/21/1992  | 4:29  | 2/24/1992  | 3:24  | 70.91  | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 2/25/1992  | 6:45  | 2/25/1992  | 7:45  | 1      | 3416 | FEEDWATER CONTROLS              |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 2/25/1992  | 7:45  | 2/25/1992  | 10:00 | 2.25   | 1850 | BLR. WATER COND. (HIGH SILICA)  |
| 521 | 158 | Oak Creek #5 | 000* | 205 | D1 | 2/26/1992  | 7:00  | 2/26/1992  | 23:00 | 16     | 1850 | BLR. WATER CONDITION (SILICA)   |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 2/27/1992  | 23:19 | 3/2/1992   | 2:53  | 51.56  | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | 000* | 165 | D1 | 3/2/1992   | 15:00 | 3/3/1992   | 11:00 | 20     | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 3/15/1992  | 4:40  | 3/15/1992  | 5:22  | 0.7    | 3412 | FEED PMP DRIVE STEAM TURBINE    |
|     |     |              |      |     |    |            |       |            |       |        |      | CONDENSER TUBE & WTRBX          |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 3/27/1992  | 3:48  | 3/27/1992  | 4:10  | 0.36   | 3113 | CLEANING                        |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 3/27/1992  | 4:17  | 3/27/1992  | 4:47  | 0.5    | 1700 | FEEDWATER CONTROLS              |
| 521 | 158 | Oak Creek #5 |      |     | NC | 3/28/1992  | 21:00 | 3/29/1992  | 13:30 | 16.5   | 250  | 53 PULVERIZED FUEL FEEDER       |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 4/10/1992  | 7:00  | 4/13/1992  | 4:01  | 69.01  | 340  | 51 MILL PULVERIZER              |
| 521 | 158 | Oak Creek #5 |      |     | NC | 4/14/1992  | 3:00  | 4/14/1992  | 4:00  | 1      | 1470 | ID FAN MOTORS AND DRIVES        |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 5/7/1992   | 15:17 | 5/8/1992   | 7:10  | 15.88  | 360  | BURNERS                         |
| 521 | 158 | Oak Creek #5 |      |     | NC | 6/19/1992  | 21:00 | 6/21/1992  | 13:30 | 40.5   | 300  | PULVERIZER MOTORS & DRIVES      |
| 521 | 158 | Oak Creek #5 |      |     | RS | 6/25/1992  | 21:49 | 7/1/1992   | 6:24  | 128.58 | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/1/1992   | 9:45  | 7/1/1992   | 11:45 | 2      | 380  | LIGHT OFF IGNITERS              |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/1/1992   | 13:14 | 7/1/1992   | 22:36 | 9.36   | 380  | LIGHT OFF IGNITERS              |

|     |     |              |      |     |    |            |       |            |       |        |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---------------------------------|
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/16/1992  | 13:22 | 7/16/1992  | 16:15 | 2.88   | 1799 | OTHER CONTROL PROBLEMS          |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 7/16/1992  | 18:40 | 7/19/1992  | 12:56 | 66.26  | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/19/1992  | 16:00 | 7/19/1992  | 16:16 | 0.26   | 380  | LIGHT OFF IGNITERS              |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/19/1992  | 17:01 | 7/19/1992  | 17:10 | 0.15   | 380  | LIGHT OFF IGNITERS              |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/19/1992  | 17:34 | 7/19/1992  | 17:45 | 0.18   | 380  | LIGHT OFF IGNITERS              |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/28/1992  | 0:17  | 7/28/1992  | 0:39  | 0.36   | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 8/10/1992  | 20:52 | 8/10/1992  | 22:34 | 1.7    | 1750 | BURNER MGMT SYSTEM              |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 8/27/1992  | 10:43 | 9/7/1992   | 12:16 | 265.54 | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/7/1992   | 21:32 | 9/7/1992   | 22:26 | 0.9    | 1750 | BURNER MANAGEMENT SYSTEM        |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/9/1992   | 10:14 | 9/9/1992   | 11:07 | 0.88   | 1750 | BURNER MANAGEMENT SYSTEM        |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/9/1992   | 21:39 | 9/9/1992   | 23:23 | 1.73   | 1750 | BURNER MANAGEMENT SYSTEM        |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 10/2/1992  | 10:15 | 10/2/1992  | 12:00 | 1.75   | 1799 | OTHER BOILER CONTROL PROBLEMS   |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 10/3/1992  | 0:17  | 10/4/1992  | 20:16 | 43.98  | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/4/1992  | 22:45 | 10/4/1992  | 23:30 | 0.75   | 380  | LIGHT-OFF SYSTEMS               |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/5/1992  | 0:52  | 10/5/1992  | 2:13  | 1.35   | 380  | LIGHT-OFF SYSTEMS               |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 10/7/1992  | 23:37 | 10/8/1992  | 12:30 | 12.88  | 4430 | GLAND SEAL SYSTEM               |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 10/8/1992  | 12:30 | 10/9/1992  | 6:37  | 18.11  | 1090 | RADIANT SPRHT DRAIN LINE LEAK   |
| 521 | 158 | Oak Creek #5 | 000* | 140 | D2 | 10/23/1992 | 13:30 | 10/25/1992 | 0:01  | 34.51  | 3440 | HP HTR TUBE LEAK                |
| 521 | 158 | Oak Creek #5 |      |     | NC | 10/25/1992 | 0:01  | 10/26/1992 | 4:00  | 27.98  | 3440 | HI PRESSURE FDWTR HTR TUBE LEAK |
| 521 | 158 | Oak Creek #5 | 000* | 140 | PD | 10/26/1992 | 4:00  | 10/26/1992 | 22:20 | 18.33  | 3440 | HI PRESSURE FDWTR HTR TUBE LEAK |
| 521 | 158 | Oak Creek #5 |      |     | NC | 10/31/1992 | 3:00  | 11/1/1992  | 9:00  | 30     | 3440 | HI PRESSURE FDWTR HTR TUBE LEAK |
| 521 | 158 | Oak Creek #5 | 000* | 138 | D1 | 11/1/1992  | 17:15 | 11/1/1992  | 17:40 | 0.41   | 340  | OTHER MILL PROBLEMS             |
| 521 | 158 | Oak Creek #5 | 000* | 138 | D1 | 11/2/1992  | 17:20 | 11/2/1992  | 17:50 | 0.5    | 250  | PULVERIZER FEEDER               |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 11/12/1992 | 21:54 | 11/14/1992 | 12:45 | 38.84  | 1090 | OTHER BOILER TUBE LEAKS         |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 11/20/1992 | 3:43  | 11/20/1992 | 4:08  | 0.41   | 9270 | WET COAL                        |
| 521 | 158 | Oak Creek #5 | 000* | 160 | D2 | 12/1/1992  | 9:15  | 12/2/1992  | 5:50  | 20.58  | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 158 | Oak Creek #5 | 000* | 203 | D1 | 12/2/1992  | 17:00 | 12/3/1992  | 6:00  | 13     | 1799 | OTHER BLR CONTROL PROBLEMS      |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/8/1992  | 17:21 | 12/9/1992  | 2:43  | 9.36   | 1799 | OTHER BLR CONTROL PROBLEMS      |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/9/1992  | 3:17  | 12/9/1992  | 3:52  | 0.58   | 380  | LIGHT OFF SYSTEM                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/9/1992  | 8:37  | 12/9/1992  | 10:13 | 1.6    | 380  | LIGHT OFF SYSTEMS               |
| 521 | 158 | Oak Creek #5 | 000* | 175 | PD | 12/11/1992 | 7:30  | 12/11/1992 | 22:48 | 15.3   | 310  | PULVERIZER MILLS                |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 12/11/1992 | 22:48 | 12/13/1992 | 18:58 | 44.16  | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/13/1992 | 21:20 | 12/14/1992 | 1:46  | 4.43   | 380  | LIGHT OFF SYSTEMS               |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/14/1992 | 2:46  | 12/17/1992 | 2:45  | 71.98  | 1040 | FIRST SUPERHEATER               |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 12/17/1992 | 2:45  | 12/18/1992 | 16:30 | 37.75  | 1320 | TUBE SUPPORTS/ATTACHMENTS       |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 12/18/1992 | 16:30 | 12/20/1992 | 6:22  | 37.86  | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/20/1992 | 7:33  | 12/20/1992 | 10:13 | 2.66   | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/20/1992 | 16:37 | 12/20/1992 | 17:40 | 1.04   | 380  | LIGHT OFF IGNITORS              |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/20/1992 | 21:50 | 12/20/1992 | 22:10 | 0.33   | 380  | LIGHT OFF IGNITORS              |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/31/1992 | 0:07  | 12/31/1992 | 0:31  | 0.4    | 4302 | LO SPEED TURB TRIP DEVICE       |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 12/31/1992 | 10:30 | 12/31/1992 | 12:00 | 1.5    | 9270 | WET COAL                        |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 1/1/1993   | 1:48  | 1/1/1993   | 2:15  | 0.45   | 1750 | BURNER MANAGEMENT SYSTEM        |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 1/2/1993   | 17:00 | 1/3/1993   | 1:30  | 8.5    | 8550 | ELECTROSTATIC PRECIP FOULING    |

|     |     |              |      |     |    |            |       |            |       |        |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---------------------------------|
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 1/4/1993   | 7:00  | 1/5/1993   | 5:56  | 22.93  | 8550 | ELECTROSTATIC PRECIP FOULING    |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 1/5/1993   | 5:56  | 1/5/1993   | 9:07  | 3.18   | 3950 | PROCESS COMPUTER                |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 1/5/1993   | 16:30 | 1/11/1993  | 0:50  | 128.33 | 8550 | ELECTROSTATIC PRECIP FOULING    |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 1/17/1993  | 13:02 | 1/17/1993  | 14:35 | 1.55   | 1700 | FEEDWATER CONTROLS              |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 1/17/1993  | 17:43 | 1/17/1993  | 18:07 | 0.4    | 1750 | BURNER MANAGEMENT SYSTEM        |
| 521 | 158 | Oak Creek #5 | 000* | 110 | D1 | 1/25/1993  | 0:30  | 1/25/1993  | 10:38 | 10.13  | 1060 | FIRST REHEATER                  |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 1/25/1993  | 10:38 | 1/29/1993  | 3:15  | 88.61  | 1060 | FIRST REHEATER                  |
| 521 | 158 | Oak Creek #5 | 000* | 213 | D1 | 3/15/1993  | 8:00  | 3/15/1993  | 13:30 | 5.5    | 1799 | BOILER CONTROL PROBLEMS         |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 3/19/1993  | 8:00  | 3/19/1993  | 23:00 | 15     | 1700 | FEEDWATER CONTROLS              |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 3/20/1993  | 9:42  | 4/30/1993  | 15:31 | 989.81 | 1800 | PLANNED MAINTENANCE OUTAGE      |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 5/1/1993   | 2:17  | 5/1/1993   | 2:39  | 0.36   | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 5/1/1993   | 15:00 | 5/1/1993   | 16:09 | 1.15   | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | *    | 200 | D1 | 5/3/1993   | 6:00  | 5/4/1993   | 1:00  | 19     | 1850 | BOILER WATER CONDITIONS         |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 5/6/1993   | 23:24 | 5/11/1993  | 4:46  | 101.36 | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 5/19/1993  | 1:04  | 5/19/1993  | 1:30  | 0.43   | 1990 | BOILER PERFORMANCE TESTING      |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 5/20/1993  | 1:36  | 5/20/1993  | 1:55  | 0.31   | 1990 | BOILER PERFORMANCE TESTING      |
| 521 | 158 | Oak Creek #5 | *    | 212 | D1 | 5/20/1993  | 8:30  | 5/20/1993  | 17:18 | 8.8    | 4309 | OTHER TURB INST & CTRL PROBLEMS |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 5/20/1993  | 17:18 | 5/20/1993  | 17:51 | 0.55   | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | *    | 215 | D1 | 5/20/1993  | 17:51 | 5/20/1993  | 20:11 | 2.33   | 4309 | OTHER TURB INST & CTRL PROBLEMS |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 5/20/1993  | 20:11 | 5/20/1993  | 20:36 | 0.41   | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | *    | 160 | D1 | 5/26/1993  | 9:00  | 5/26/1993  | 11:15 | 2.25   | 338  | PULVERIZER CONTROL SYSTEM       |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 5/29/1993  | 21:00 | 5/30/1993  | 16:00 | 19     | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 6/16/1993  | 2:43  | 6/16/1993  | 3:29  | 0.76   | 4293 | HYDRALIC SYSTEM PIPES & VLVS    |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 6/16/1993  | 3:30  | 6/19/1993  | 6:25  | 74.91  | 300  | PULVERIZER MOTORS & DRIVES      |
| 521 | 158 | Oak Creek #5 | *    | 160 | D1 | 6/25/1993  | 3:15  | 6/25/1993  | 18:30 | 15.25  | 300  | PULVERIZER MOTOR & DRIVES       |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 8/13/1993  | 11:30 | 8/13/1993  | 17:30 | 6      | 9270 | WET COAL                        |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D4 | 9/13/1993  | 7:00  | 9/13/1993  | 18:00 | 11     | 310  | PULVERIZER MILLS                |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 9/15/1993  | 23:19 | 9/25/1993  | 11:13 | 227.9  | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | SF | 9/25/1993  | 11:13 | 9/25/1993  | 11:50 | 0.61   | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 10/8/1993  | 23:00 | 10/9/1993  | 17:00 | 18     | 3441 | OTHER HP FDWTR HTR PROBLEMS     |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/16/1993 | 7:55  | 10/16/1993 | 9:47  | 1.86   | 4601 | EXCITATION FIELD RHEOSTAT       |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 10/27/1993 | 8:00  | 10/27/1993 | 22:00 | 14     | 9290 | OTHER FUEL QUALITY PROBLEMS     |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 10/28/1993 | 7:00  | 10/28/1993 | 22:00 | 15     | 9290 | OTHER FUEL QUALITY PROBLEMS     |
| 521 | 158 | Oak Creek #5 | 000* | 130 | D1 | 11/1/1993  | 9:00  | 11/1/1993  | 11:45 | 2.75   | 310  | PULVERIZER MILLS                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 11/6/1993  | 16:36 | 11/6/1993  | 17:59 | 1.38   | 3950 | PROCESS COMPUTER                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 11/16/1993 | 22:51 | 11/22/1993 | 11:00 | 132.14 | 4520 | GENERATOR STATOR GROUND         |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 11/22/1993 | 11:00 | 11/23/1993 | 1:09  | 14.15  | 4613 | HYDROGEN SEALS HS               |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 12/24/1993 | 2:09  | 12/27/1993 | 1:00  | 70.85  | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 12/27/1993 | 1:01  | 12/31/1993 | 23:59 | 118.96 | 4240 | LP TURBINE BEARING              |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 1/1/1994   | 0:02  | 1/3/1994   | 17:26 | 65.4   | 4240 | LP TURBINE BEARING              |
| 521 | 158 | Oak Creek #5 | 000* | 160 | D1 | 1/5/1994   | 4:00  | 1/5/1994   | 22:29 | 18.48  | 3110 | CONDENSER TUBE LEAKS            |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 1/5/1994   | 22:29 | 1/6/1994   | 6:24  | 7.91   | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 1/6/1994   | 10:53 | 1/6/1994   | 12:39 | 1.76   | 1700 | FEEDWATER CONTROLS              |
| 521 | 158 | Oak Creek #5 | 000* | 138 | D1 | 1/18/1994  | 8:45  | 1/18/1994  | 10:30 | 1.75   | 250  | PULVERIZER FEEDER               |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 3/25/1994  | 6:07  | 3/25/1994  | 8:13  | 2.09   | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 5/21/1994  | 1:02  | 5/21/1994  | 3:11  | 2.15   | 0    | Reserve Shutdown                |

|     |     |              |      |     |    |            |       |            |       |        |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---------------------------------|
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 6/3/1994   | 16:29 | 6/8/1994   | 8:00  | 111.51 | 1090 | OTHER BOILER TUBE LEAK          |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 6/8/1994   | 8:00  | 6/12/1994  | 9:15  | 97.25  | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | SF | 6/12/1994  | 9:15  | 6/16/1994  | 5:23  | 92.13  | 4260 | MAIN STOP VALVE                 |
| 521 | 158 | Oak Creek #5 | 000* | 135 | D1 | 6/29/1994  | 8:45  | 6/29/1994  | 19:25 | 10.66  | 200  | PULVERIZER EXHAUSTER FAN        |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 7/1/1994   | 22:48 | 7/4/1994   | 4:07  | 53.31  | 1090 | OTHER BOILER TUBE LEAKS         |
| 521 | 158 | Oak Creek #5 | *    |     | SF | 7/4/1994   | 4:07  | 7/4/1994   | 5:06  | 0.98   | 380  | LIGHT OFF SYSTEM                |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 7/7/1994   | 16:00 | 7/8/1994   | 1:17  | 9.28   | 3110 | CONDENSER TUBE LEAKS            |
| 521 | 158 | Oak Creek #5 | *    |     | U3 | 7/8/1994   | 1:17  | 7/8/1994   | 9:09  | 7.86   | 3110 | CONDENSER TUBE LEAKS            |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/30/1994  | 11:03 | 7/30/1994  | 13:50 | 2.78   | 9900 | OPERATOR ERROR                  |
| 521 | 158 | Oak Creek #5 | 000* | 190 | D1 | 8/9/1994   | 17:30 | 8/9/1994   | 22:00 | 4.5    | 3112 | COND. TUBE FOULING TUBE SIDE    |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 9/4/1994   | 23:50 | 9/5/1994   | 21:08 | 21.3   | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 9/6/1994   | 22:40 | 9/11/1994  | 13:10 | 110.5  | 1050 | SECOND SUPERHEATER              |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 9/19/1994  | 18:21 | 9/21/1994  | 14:29 | 44.13  | 3440 | HI PRESSURE HTR TUBE LEAKS      |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/21/1994  | 14:29 | 9/21/1994  | 17:02 | 2.55   | 1570 | BURNER MANAGEMENT SYSTEM        |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 9/21/1994  | 17:02 | 9/22/1994  | 1:20  | 8.3    | 3440 | HI PRESSURE HTR TUBE LEAKS      |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/22/1994  | 1:20  | 9/22/1994  | 2:59  | 1.65   | 1570 | BURNER MANAGEMENT SYSTEM        |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/22/1994  | 3:24  | 9/22/1994  | 6:18  | 2.9    | 1570 | BURNER MANAGEMENT SYSTEM        |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 9/22/1994  | 2:59  | 9/22/1994  | 3:24  | 0.41   | 3440 | HI PRESSURE HTR TUBE LEAKS      |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 9/22/1994  | 6:18  | 9/23/1994  | 11:00 | 28.7   | 3440 | HI PRESSURE HTR TUBE LEAKS      |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 10/9/1994  | 22:53 | 10/12/1994 | 10:47 | 59.9   | 1040 | FIRST SUPERHEAT                 |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/18/1994 | 7:03  | 10/18/1994 | 7:46  | 0.71   | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/19/1994 | 1:31  | 10/19/1994 | 1:59  | 0.46   | 1710 | COMBUSTION CONTROLS             |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 12/1/1994  | 0:27  | 12/13/1994 | 2:00  | 289.54 | 1800 | PLANNED ANNUAL OUTAGE           |
| 521 | 158 | Oak Creek #5 | *    |     | SF | 12/13/1994 | 2:00  | 12/15/1994 | 6:14  | 52.23  | 1005 | GENERATING TUBE                 |
| 521 | 158 | Oak Creek #5 | *    |     | SF | 12/15/1994 | 6:14  | 12/15/1994 | 18:14 | 12     | 3644 | PROTECTION DEVICES              |
| 521 | 158 | Oak Creek #5 | 000* | 85  | D1 | 12/20/1994 | 5:00  | 12/20/1994 | 15:00 | 10     | 1470 | ID FAN MOTOR AND DRIVE          |
| 521 | 158 | Oak Creek #5 | 000* | 110 | D1 | 12/20/1994 | 15:00 | 12/20/1994 | 21:28 | 6.46   | 1850 | BOILER WATER CONDITION          |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 12/20/1994 | 21:28 | 12/21/1994 | 8:24  | 10.93  | 3110 | CONDENSER TUBE LEAKS            |
| 521 | 158 | Oak Creek #5 | 000* | 224 | D1 | 2/21/1995  | 18:00 | 2/21/1995  | 20:30 | 2.5    | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 3/1/1995   | 3:40  | 3/1/1995   | 4:50  | 1.16   | 3271 | INTAKE GRATING FOULING          |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 3/28/1995  | 23:04 | 4/2/1995   | 21:43 | 118.65 | 1060 | FIRST REHEATER                  |
| 521 | 158 | Oak Creek #5 | *    |     | SF | 4/2/1995   | 21:43 | 4/2/1995   | 23:09 | 1.43   | 380  | LOSS OF FLAME IGNITORS          |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 4/3/1995   | 13:19 | 4/3/1995   | 13:34 | 0.25   | 1710 | COMBUSTION CONTROL              |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 4/4/1995   | 1:15  | 4/4/1995   | 1:40  | 0.41   | 4750 | TEST REVERSE POWER RELAY        |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 4/17/1995  | 0:01  | 4/20/1995  | 19:00 | 90.98  | 3440 | HIGH PRESSURE HEATER TUBE LEAKS |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 5/2/1995   | 9:10  | 5/8/1995   | 1:23  | 136.21 | 1005 | GENERATING TUBE                 |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 5/10/1995  | 19:47 | 5/16/1995  | 2:34  | 126.78 | 1005 | GENERATING TUBE                 |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 6/22/1995  | 15:33 | 6/22/1995  | 16:45 | 1.2    | 380  | LIGHT OFF SYSTEM                |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 7/3/1995   | 16:27 | 7/4/1995   | 17:00 | 24.55  | 0    | Reserve Shutdown                |
| 521 | 158 | Oak Creek #5 | *    |     | SF | 7/4/1995   | 17:00 | 7/8/1995   | 0:32  | 79.53  | 4240 | TURBINE BEARINGS                |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/13/1995  | 12:21 | 7/13/1995  | 13:20 | 0.98   | 3499 | OTHER FDWTR SYS PROBLEMS        |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/13/1995  | 20:53 | 7/13/1995  | 21:58 | 1.08   | 3499 | OTHER FDWTR SYS PROBLEMS        |
| 521 | 158 | Oak Creek #5 | 000* | 250 | D1 | 7/14/1995  | 3:00  | 7/14/1995  | 18:00 | 15     | 4308 | TURBINE INST & CONTROL          |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/16/1995  | 0:39  | 7/16/1995  | 1:13  | 0.56   | 9270 | WET COAL                        |
| 521 | 158 | Oak Creek #5 | 000* | 140 | D4 | 7/20/1995  | 6:00  | 7/20/1995  | 17:00 | 11     | 3504 | HEATER DRAIN VALVES             |

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|     |     |              |      |     |    |            |       |            |       |         |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|---------|------|---------------------------------|
| 521 | 158 | Oak Creek #5 | 000* | 140 | PD | 7/20/1995  | 17:00 | 7/20/1995  | 22:00 | 5       | 300  | PULVERIZER MOTORS AND DRIVES    |
|     |     |              |      |     |    |            |       |            |       |         |      | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 158 | Oak Creek #5 | 000* | 217 | D1 | 7/25/1995  | 11:30 | 7/26/1995  | 0:30  | 13      | 8560 | LEMS                            |
| 521 | 158 | Oak Creek #5 | 000* | 170 | D1 | 7/26/1995  | 11:45 | 7/26/1995  | 14:45 | 3       | 250  | PULVERIZER FEEDER               |
|     |     |              |      |     |    |            |       |            |       |         |      | OTHER MISC CNDSATE SYS          |
| 521 | 158 | Oak Creek #5 | 000* | 230 | D1 | 7/27/1995  | 13:00 | 7/27/1995  | 15:30 | 2.5     | 3399 | PROBLEMS                        |
| 521 | 158 | Oak Creek #5 | 000* | 140 | D1 | 8/5/1995   | 6:00  | 8/5/1995   | 21:00 | 15      | 3439 | "B" FEEDWATER HTR HEAD LEAK     |
| 521 | 158 | Oak Creek #5 | 000* | 200 | D1 | 8/18/1995  | 7:00  | 8/19/1995  | 7:00  | 24      | 9270 | WET COAL                        |
| 521 | 158 | Oak Creek #5 | 000* | 210 | D1 | 8/20/1995  | 17:30 | 8/21/1995  | 15:30 | 22      | 9270 | WET COAL                        |
|     |     |              |      |     |    |            |       |            |       |         |      | FDWTR PIPING DOWNSTREAM REG     |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 8/27/1995  | 15:15 | 9/1/1995   | 0:19  | 105.06  | 670  | VLV                             |
|     |     |              |      |     |    |            |       |            |       |         |      | FDWTR PIPNG DOWNSTREAM OF REG   |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 9/1/1995   | 0:20  | 9/4/1995   | 17:57 | 89.61   | 670  | V                               |
|     |     |              |      |     |    |            |       |            |       |         |      |                                 |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 9/5/1995   | 7:00  | 9/10/1995  | 2:00  | 115     | 3310 | CONDENSATE SYS 51 HOTWELL PUMP  |
|     |     |              |      |     |    |            |       |            |       |         |      | OTHER HIGH PRESSURE HTR         |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D1 | 10/27/1995 | 9:30  | 10/27/1995 | 18:30 | 9       | 3441 | PROBLEM                         |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 11/11/1995 | 0:42  | 12/27/1995 | 2:26  | 1129.73 | 4510 | ROTOR COLLECTOR RINGS           |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/29/1995 | 10:52 | 12/29/1995 | 11:35 | 0.71    | 4309 | TURB CONTROL SYS DIGITAL CONTRO |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 12/29/1995 | 11:35 | 12/30/1995 | 4:30  | 16.91   | 335  | PULV LUBE OIL SYSTEM            |
| 521 | 158 | Oak Creek #5 | 000* | 85  | D1 | 1/12/1996  | 18:00 | 1/12/1996  | 21:00 | 3       | 1470 |                                 |
| 521 | 158 | Oak Creek #5 | 000* | 110 | D1 | 1/27/1996  | 16:40 | 1/28/1996  | 3:20  | 10.66   | 1470 | nil                             |
| 521 | 158 | Oak Creek #5 | 000* | 94  | D1 | 2/12/1996  | 16:15 | 2/12/1996  | 21:15 | 5       | 1470 |                                 |
| 521 | 158 | Oak Creek #5 | 000* | 175 | D1 | 3/4/1996   | 4:30  | 3/4/1996   | 17:25 | 12.91   | 3441 | nil                             |
| 521 | 158 | Oak Creek #5 | 000* | 160 | D1 | 4/17/1996  | 6:00  | 4/17/1996  | 13:30 | 7.5     | 335  | Normal                          |
| 521 | 158 | Oak Creek #5 | 000* | 160 | D4 | 4/22/1996  | 0:00  | 4/30/1996  | 12:00 | 204     | 345  | nil                             |
| 521 | 158 | Oak Creek #5 | 000* | 120 | D1 | 5/13/1996  | 13:30 | 5/13/1996  | 15:00 | 1.5     | 240  |                                 |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 5/30/1996  | 5:19  | 6/3/1996   | 20:30 | 111.18  | 4260 | nil                             |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 6/5/1996   | 12:40 | 6/9/1996   | 13:44 | 97.06   | 1040 | nil                             |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 6/12/1996  | 17:16 | 6/24/1996  | 8:04  | 278.79  | 1040 | nil                             |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 6/30/1996  | 23:35 | 7/3/1996   | 18:30 | 66.91   | 310  | nil                             |
| 521 | 158 | Oak Creek #5 | 000* | 150 | D4 | 7/15/1996  | 7:00  | 7/16/1996  | 20:30 | 37.5    | 3439 | nil                             |
| 521 | 158 | Oak Creek #5 | *    |     | U3 | 8/23/1996  | 1:38  | 8/24/1996  | 1:15  | 23.61   | 3110 | nil                             |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 8/26/1996  | 19:24 | 9/2/1996   | 0:54  | 149.5   | 1040 | nil                             |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/3/1996   | 12:03 | 9/8/1996   | 14:15 | 122.2   | 1040 | nil                             |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/10/1996  | 0:36  | 9/19/1996  | 15:59 | 231.38  | 1040 | nil                             |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/19/1996  | 19:23 | 9/19/1996  | 19:45 | 0.36    | 380  |                                 |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/23/1996  | 8:18  | 9/23/1996  | 8:45  | 0.45    | 1470 |                                 |
| 521 | 158 | Oak Creek #5 | 000* | 220 | D1 | 9/30/1996  | 6:00  | 9/30/1996  | 10:00 | 4       | 3110 | Normal                          |
| 521 | 158 | Oak Creek #5 | 000* | 120 | D1 | 10/7/1996  | 19:00 | 10/8/1996  | 2:30  | 7.5     | 3112 |                                 |
| 521 | 158 | Oak Creek #5 | 000* | 110 | D1 | 10/10/1996 | 7:30  | 10/11/1996 | 3:00  | 19.5    | 3112 |                                 |
| 521 | 158 | Oak Creek #5 | 000* | 98  | D1 | 10/16/1996 | 7:00  | 10/16/1996 | 10:30 | 3.5     | 880  | Normal                          |
| 521 | 158 | Oak Creek #5 | 000* | 120 | D1 | 11/9/1996  | 0:01  | 11/10/1996 | 14:00 | 37.98   | 3441 |                                 |
| 521 | 158 | Oak Creek #5 | 000* | 180 | D1 | 11/11/1996 | 15:30 | 11/11/1996 | 19:30 | 4       | 250  |                                 |
| 521 | 158 | Oak Creek #5 | *    |     | U3 | 11/21/1996 | 12:00 | 11/25/1996 | 3:46  | 87.76   | 4611 |                                 |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 11/25/1996 | 3:46  | 11/26/1996 | 5:25  | 25.65   | 1055 |                                 |

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|     |     |              |      |     |    |            |       |            |       |         |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|---------|------|--|
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/20/1996 | 2:51  | 12/20/1996 | 13:30 | 10.65   | 250  |  |
| 521 | 158 | Oak Creek #5 | 00*0 | 110 | D1 | 1/21/1997  | 12:00 | 1/21/1997  | 20:30 | 8.5     | 1488 | 52 Air Heater  |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 2/21/1997  | 17:43 | 2/21/1997  | 23:30 | 5.78    | 3950 | DPU51 Failure Initiated Unit Trip Due to Computer Communication Problems |
| 521 | 158 | Oak Creek #5 | 00*0 | 120 | D1 | 2/23/1997  | 11:50 | 2/28/1997  | 16:15 | 124.41  | 280  | Pulverizer Fires   |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 3/4/1997   | 0:56  | 3/8/1997   | 13:05 | 108.15  | 4611 | Maint Outage Replace Hydrogen Cooler Gaskets                             |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 3/10/1997  | 8:26  | 3/17/1997  | 20:36 | 180.16  | 1040 | Superheat Leak   |
| 521 | 158 | Oak Creek #5 | 00*0 | 150 | D3 | 3/20/1997  | 3:00  | 3/20/1997  | 12:25 | 9.41    | 4261 | Control Valve  |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 3/22/1997  | 19:38 | 3/27/1997  | 18:56 | 119.3   | 1040 | Superheat Tube Leak  |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 4/8/1997   | 10:24 | 4/15/1997  | 2:17  | 159.88  | 1040 | Superheat Tube Leak  |
| 521 | 158 | Oak Creek #5 | 00*0 | 125 | D1 | 5/1/1997   | 5:00  | 5/1/1997   | 12:00 | 7       | 250  | Pulverizer Feeder  |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 5/8/1997   | 20:33 | 5/11/1997  | 19:03 | 70.5    | 1040 | Superheat Tube Leak  |
| 521 | 158 | Oak Creek #5 | 00*0 | 130 | D1 | 5/12/1997  | 14:00 | 5/13/1997  | 7:00  | 17      | 250  | Pulverizer Feeder  |
| 521 | 158 | Oak Creek #5 | *    |     | U3 | 5/16/1997  | 16:24 | 5/18/1997  | 19:45 | 51.35   | 1040 | Delayed Outage to Repair Tube Leak                                       |
| 521 | 158 | Oak Creek #5 | 00*0 | 150 | D4 | 5/18/1997  | 19:45 | 5/19/1997  | 20:00 | 24.25   | 1850 | Boiler Water Condition   |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 5/22/1997  | 0:04  | 5/22/1997  | 16:30 | 16.43   | 4293 | Repair EHC Piping Leak   |
| 521 | 158 | Oak Creek #5 | 00*0 | 160 | D1 | 7/5/1997   | 11:00 | 7/6/1997   | 1:30  | 14.5    | 250  | 51-1 Feeder Belt Torn - To Be Replaced                                   |
| 521 | 158 | Oak Creek #5 | 00*0 | 110 | D3 | 7/17/1997  | 23:00 | 7/18/1997  | 3:30  | 4.5     | 265  | 52 Air Heater Replace Fluid Drive Coupling                               |
| 521 | 158 | Oak Creek #5 | 00*0 | 120 | D1 | 7/23/1997  | 22:30 | 7/27/1997  | 22:30 | 96      | 290  | Pulverizer Capacity Due to We ar   |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 7/29/1997  | 15:31 | 7/29/1997  | 16:40 | 1.15    | 3416 | Steam Boiler Feed Pump Trip  |
| 521 | 158 | Oak Creek #5 | 00*0 | 90  | D1 | 8/4/1997   | 23:00 | 8/6/1997   | 4:00  | 29      | 3112 | Condenser Tube Fouling   |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 8/8/1997   | 1:01  | 8/10/1997  | 19:26 | 66.41   | 0    | Reserve Shutdown   |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 8/11/1997  | 18:59 | 8/16/1997  | 15:41 | 116.7   | 1040 | Superheat Tube Leak  |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 8/20/1997  | 7:49  | 8/26/1997  | 22:05 | 158.26  | 1040 | Superheat Tube Leak  |
| 521 | 158 | Oak Creek #5 | 00*0 | 120 | D1 | 9/23/1997  | 6:00  | 9/26/1997  | 12:15 | 78.25   | 280  | Pulverizer Fires   |
| 521 | 158 | Oak Creek #5 | 00*0 | 160 | D1 | 10/6/1997  | 7:45  | 10/6/1997  | 12:00 | 4.25    | 4299 | Troubleshoot EHC High Temperature Problem                                |
| 521 | 158 | Oak Creek #5 | 00*0 | 165 | D1 | 10/14/1997 | 18:05 | 10/19/1997 | 5:00  | 106.91  | 340  | Pulverizer Exhauster Fan Drive   |
| 521 | 158 | Oak Creek #5 | 00*0 | 105 | D1 | 10/20/1997 | 21:30 | 10/21/1997 | 13:30 | 16      | 250  | 53 Feeder Belt Broke   |
| 521 | 158 | Oak Creek #5 | 00*0 | 90  | D1 | 10/27/1997 | 7:00  | 10/27/1997 | 19:00 | 12      | 3112 | Condenser Tube Fouling   |
| 521 | 158 | Oak Creek #5 | 00*0 | 220 | D1 | 11/4/1997  | 7:02  | 11/4/1997  | 12:00 | 4.96    | 1200 | Operate at Reduced Power to Avoid Slagging Fine Coal                     |
| 521 | 158 | Oak Creek #5 | 00*0 | 200 | D1 | 11/24/1997 | 22:20 | 12/1/1997  | 0:00  | 169.66  | 340  | Other Pulverizer Problems  |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 12/20/1997 | 2:03  | 12/22/1997 | 2:02  | 47.98   | 0    | Reserve Shutdown   |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 12/26/1997 | 4:18  | 12/31/1997 | 23:59 | 139.68  | 1800 | Planned Annual Outage  |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 1/1/1998   | 0:01  | 4/3/1998   | 13:03 | 2221.03 | 1800 | Planned Annual Outage (started 12/26/97 04:18)                           |
| 521 | 158 | Oak Creek #5 | 00*0 | 130 | D1 | 4/7/1998   | 3:30  | 4/8/1998   | 6:00  | 26.5    | 300  | Mill Motors  |
| 521 | 158 | Oak Creek #5 | 00*0 | 210 | D3 | 4/15/1998  | 9:45  | 4/15/1998  | 21:00 | 11.25   | 265  | 51 Air Heater - Replace Fluid Drive Coupling                             |
| 521 | 158 | Oak Creek #5 | 00*0 | 145 | D1 | 4/20/1998  | 8:30  | 4/20/1998  | 9:45  | 1.25    | 250  | Pulverizer Feeders - Rock in Feeder                                      |
| 521 | 158 | Oak Creek #5 | 00*0 | 145 | D1 | 4/21/1998  | 9:40  | 4/21/1998  | 10:00 | 0.33    | 250  | Pulverizer Feeder Plugged  |
| 521 | 158 | Oak Creek #5 | 00*0 | 210 | D1 | 4/22/1998  | 19:30 | 4/22/1998  | 21:45 | 2.25    | 340  | Other Pulverizer Problems  |
| 521 | 158 | Oak Creek #5 | 00*0 | 185 | D1 | 4/26/1998  | 14:30 | 4/26/1998  | 15:26 | 0.93    | 340  | 53 Mill Set Spring Cartridge Tension Etc                                 |



|     |     |              |      |     |    |            |       |            |       |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---|
| 521 | 158 | Oak Creek #5 | 00*0 | 205 | D1 | 4/26/1998  | 15:26 | 4/26/1998  | 21:00 | 5.56   | 3270 | Cooling Water Fouling Due To Rough Lake |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 5/6/1998   | 23:04 | 5/7/1998   | 6:20  | 7.26   | 4430 | Gland Seal System                       |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 5/23/1998  | 5:26  | 5/30/1998  | 18:24 | 180.96 | 4260 | Main Stop Valves                        |
| 521 | 158 | Oak Creek #5 | 00*0 | 200 | D1 | 6/1/1998   | 8:00  | 6/1/1998   | 14:30 | 6.5    | 510  | Main Steam Relief/Safety Valves         |
| 521 | 158 | Oak Creek #5 | 00*0 | 110 | D1 | 6/2/1998   | 8:15  | 6/5/1998   | 11:45 | 75.5   | 1470 | 52 Induced Draft Fan                    |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 6/13/1998  | 16:22 | 6/13/1998  | 16:53 | 0.51   | 3950 | Failure of Unit Computer                |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 6/16/1998  | 0:21  | 6/16/1998  | 14:45 | 14.4   | 3110 | Condenser Tube Leak                     |
| 521 | 158 | Oak Creek #5 | *    |     | SF | 6/16/1998  | 14:45 | 6/20/1998  | 12:30 | 93.75  | 4609 | Other Exciter Problems                  |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 6/20/1998  | 12:30 | 6/21/1998  | 1:21  | 12.85  | 9900 | Operator Error                          |
| 521 | 158 | Oak Creek #5 | 00*0 | 100 | D1 | 6/22/1998  | 23:00 | 6/23/1998  | 0:01  | 1.01   | 800  | Drum Problems                           |
| 521 | 158 | Oak Creek #5 | *    |     | PO | 7/4/1998   | 17:18 | 7/4/1998   | 19:08 | 1.83   | 4460 | Overspeed Trip Test                     |
| 521 | 158 | Oak Creek #5 | 00*0 | 220 | D1 | 7/5/1998   | 11:30 | 7/5/1998   | 17:00 | 5.5    | 3210 | Circulating Water Pump                  |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 7/11/1998  | 1:15  | 7/13/1998  | 5:22  | 52.11  | 4640 | Seal System And Seals                   |
| 521 | 158 | Oak Creek #5 | 00*0 | 220 | D1 | 7/20/1998  | 7:00  | 7/20/1998  | 23:53 | 16.88  | 800  | Drum Door Leak                          |
| 521 | 158 | Oak Creek #5 | 00*0 | 120 | D1 | 7/20/1998  | 23:53 | 7/21/1998  | 8:30  | 8.61   | 250  | Pulverizer Feeders                      |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 7/23/1998  | 7:28  | 7/24/1998  | 22:47 | 39.31  | 800  | Repair South Drum Door Leak             |
| 521 | 158 | Oak Creek #5 | 00*0 | 175 | D1 | 8/4/1998   | 20:15 | 8/4/1998   | 22:15 | 2      | 250  | 53 Feeder Trip                          |
| 521 | 158 | Oak Creek #5 | 00*0 | 220 | D1 | 8/5/1998   | 9:45  | 8/5/1998   | 11:45 | 2      | 110  | Wet Coal                                |
| 521 | 158 | Oak Creek #5 | 00*0 | 220 | D1 | 8/6/1998   | 10:00 | 8/6/1998   | 22:00 | 12     | 110  | Wet Coal                                |
| 521 | 158 | Oak Creek #5 | 00*0 | 135 | D1 | 8/7/1998   | 7:50  | 8/7/1998   | 10:30 | 2.66   | 250  | 53 Feeder Belt                          |
| 521 | 158 | Oak Creek #5 | 00*0 | 145 | D1 | 8/15/1998  | 20:00 | 8/16/1998  | 4:00  | 8      | 250  | 51-52 Feeder Belt Broken                |
| 521 | 158 | Oak Creek #5 | 00*0 | 220 | D1 | 8/16/1998  | 7:00  | 8/16/1998  | 23:30 | 16.5   | 3199 | Condenser Back Pressure                 |
| 521 | 158 | Oak Creek #5 | 00*0 | 220 | D1 | 8/17/1998  | 8:00  | 8/17/1998  | 22:00 | 14     | 3199 | Condenser Back Pressure                 |
| 521 | 158 | Oak Creek #5 | 00*0 | 220 | D1 | 8/18/1998  | 6:00  | 8/19/1998  | 23:30 | 41.5   | 3199 | Condenser Back Pressure                 |
| 521 | 158 | Oak Creek #5 | 00*0 | 180 | D1 | 8/24/1998  | 16:11 | 8/25/1998  | 20:51 | 28.66  | 60   | Coal Crushers Including Motor           |
| 521 | 158 | Oak Creek #5 | 00*0 | 190 | D1 | 8/25/1998  | 20:51 | 8/26/1998  | 10:38 | 13.78  | 60   | Coal Crushers Including Motor           |
| 521 | 158 | Oak Creek #5 | 00*0 | 225 | D1 | 8/26/1998  | 10:38 | 8/31/1998  | 7:00  | 116.36 | 3199 | Condenser Back Pressure                 |
| 521 | 158 | Oak Creek #5 | 00*0 | 150 | D1 | 9/2/1998   | 6:45  | 9/2/1998   | 8:30  | 1.75   | 250  | Pulverizer Feeder Plugged Chute         |
| 521 | 158 | Oak Creek #5 | 00*0 | 115 | D1 | 9/11/1998  | 11:40 | 9/11/1998  | 17:28 | 5.8    | 9630 | Opacity                                 |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 9/11/1998  | 17:28 | 9/12/1998  | 6:14  | 12.76  | 8550 | Precipitator Fouling                    |
| 521 | 158 | Oak Creek #5 | 00*0 | 90  | D1 | 9/13/1998  | 12:00 | 9/13/1998  | 16:15 | 4.25   | 280  | 53 Mill Fire                            |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/14/1998  | 7:30  | 9/14/1998  | 13:40 | 6.16   | 3261 | Traveling Screen Fouling                |
| 521 | 158 | Oak Creek #5 | 00*0 | 80  | D1 | 9/14/1998  | 13:40 | 9/16/1998  | 20:00 | 54.33  | 1475 | 52 Induced Draft Fan Speed Controls     |
| 521 | 158 | Oak Creek #5 | 00*0 | 130 | D1 | 9/18/1998  | 4:00  | 9/19/1998  | 9:00  | 29     | 340  | 51 Mill Ribbon conveyor                 |
| 521 | 158 | Oak Creek #5 | 00*0 | 100 | D2 | 9/19/1998  | 9:00  | 9/19/1998  | 10:17 | 1.28   | 1470 | 52 ID Fan Motor Bearing Inspection      |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/19/1998  | 10:17 | 9/19/1998  | 10:55 | 0.63   | 410  | Burner Problems                         |
| 521 | 158 | Oak Creek #5 | 00*0 | 100 | D2 | 9/19/1998  | 10:55 | 9/20/1998  | 5:00  | 18.08  | 1470 | 52 ID Fan Motor Bearing Inspection      |
| 521 | 158 | Oak Creek #5 | 00*0 | 100 | D2 | 9/20/1998  | 5:00  | 9/20/1998  | 12:30 | 7.5    | 340  | Other Pulverizer Problems               |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 9/25/1998  | 23:21 | 10/2/1998  | 2:30  | 147.14 | 1800 | Maintenance Outage                      |
| 521 | 158 | Oak Creek #5 | 00*0 | 170 | D1 | 10/8/1998  | 14:11 | 10/9/1998  | 6:30  | 16.31  | 8550 | Precip Fouling                          |
| 521 | 158 | Oak Creek #5 | *    |     | U3 | 10/10/1998 | 21:50 | 10/11/1998 | 9:13  | 11.38  | 8550 | Precip Fouling                          |
| 521 | 158 | Oak Creek #5 | 00*0 | 110 | D1 | 10/25/1998 | 9:30  | 10/25/1998 | 21:15 | 11.75  | 1412 | FD Fan Drive Problems                   |
| 521 | 158 | Oak Creek #5 | 00*0 | 120 | D1 | 10/26/1998 | 17:21 | 10/27/1998 | 6:40  | 13.31  | 1471 | 52 ID Fan VFD Cooler Leak               |
| 521 | 158 | Oak Creek #5 | 00*0 | 120 | D1 | 10/27/1998 | 7:30  | 10/27/1998 | 13:45 | 6.25   | 1471 | 52 ID Fan VFD Cooler Leak               |
| 521 | 158 | Oak Creek #5 | 00*0 | 120 | D1 | 10/27/1998 | 17:55 | 10/28/1998 | 5:30  | 11.58  | 1471 | 52 ID Fan VFD Cooler Leak               |

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|     |     |              |      |     |    |            |       |            |       |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---|
| 521 | 158 | Oak Creek #5 | 00*0 | 115 | D1 | 11/15/1998 | 19:18 | 11/16/1998 | 4:25  | 9.11   | 8656 | Precip Fouling  |
| 521 | 158 | Oak Creek #5 | 00*0 | 200 | D1 | 11/17/1998 | 15:00 | 11/19/1998 | 12:00 | 45     | 8656 | Precip Fouling - High Opacity                                     |
| 521 | 158 | Oak Creek #5 | 00*0 | 113 | D1 | 11/19/1998 | 12:00 | 11/19/1998 | 16:00 | 4      | 8656 | Precip Fouling - High Opacity                                     |
| 521 | 158 | Oak Creek #5 | 00*0 | 125 | D1 | 11/19/1998 | 19:11 | 11/20/1998 | 5:00  | 9.81   | 8656 | Precip Fouling - High Opacity                                     |
| 521 | 158 | Oak Creek #5 | 00*0 | 155 | D1 | 11/20/1998 | 6:30  | 11/23/1998 | 13:30 | 79     | 8656 | Precip Fouling - High Opacity                                     |
| 521 | 158 | Oak Creek #5 | 00*0 | 90  | D1 | 11/23/1998 | 13:30 | 11/24/1998 | 6:55  | 17.41  | 8656 | Hi Opacity Tr Set Malfunction                                     |
| 521 | 158 | Oak Creek #5 | 00*0 | 190 | D1 | 11/25/1998 | 12:15 | 11/25/1998 | 21:37 | 9.36   | 8656 | Precip Fouling - Hi Opacity                                       |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 11/25/1998 | 21:37 | 11/30/1998 | 1:13  | 99.6   | 8656 | Planned Outage for Precip Repairs                                 |
| 521 | 158 | Oak Creek #5 | 00*0 | 150 | D1 | 11/30/1998 | 1:47  | 12/4/1998  | 14:00 | 132.21 | 340  | 52 Mill Trunion Seals   |
| 521 | 158 | Oak Creek #5 | 00*0 | 93  | D1 | 12/4/1998  | 14:00 | 12/5/1998  | 8:30  | 18.5   | 340  | 51 Mill Motor I/B Bearing   |
| 521 | 158 | Oak Creek #5 | 00*0 | 200 | D1 | 12/5/1998  | 20:35 | 12/6/1998  | 10:00 | 13.41  | 1350 | Overheating Blr Tubes (Hi temp, no slag cover)                    |
| 521 | 158 | Oak Creek #5 | 00*0 | 150 | D1 | 12/6/1998  | 10:00 | 12/6/1998  | 10:37 | 0.61   | 340  | 51 Mill Motor - Hi Vibration                                      |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 12/6/1998  | 10:37 | 12/6/1998  | 14:00 | 3.38   | 4550 | Generator Brgs and Lube Oil System                                |
| 521 | 158 | Oak Creek #5 | 00*0 | 150 | D1 | 12/6/1998  | 14:00 | 12/8/1998  | 21:00 | 55     | 340  | 51 Mill Vibration   |
| 521 | 158 | Oak Creek #5 | 00*0 | 115 | D1 | 12/8/1998  | 21:00 | 12/24/1998 | 12:12 | 375.2  | 4560 | Generation Vibration  |
| 521 | 158 | Oak Creek #5 | 00*0 | 200 | D1 | 12/26/1998 | 17:40 | 12/28/1998 | 12:15 | 42.58  | 1350 | Boiler Tube Temp  |
| 521 | 158 | Oak Creek #5 | 00*0 | 220 | D1 | 12/28/1998 | 12:15 | 12/29/1998 | 5:48  | 17.54  | 1350 | Boiler Tube Temp  |
| 521 | 158 | Oak Creek #5 | 00*0 | 215 | D1 | 12/29/1998 | 5:48  | 12/31/1998 | 10:35 | 52.78  | 9290 | Other Fuel Quality Problems                                       |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 12/31/1998 | 10:35 | 12/31/1998 | 23:59 | 13.4   | 540  | Reheat Steam Piping Up to Main Stop Vlvs                          |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 1/1/1999   | 0:01  | 1/2/1999   | 9:51  | 33.83  | 540  | Reheat Steam Piping Up to Main Stop Vlvs (started 12/31/98 10:35) |
| 521 | 158 | Oak Creek #5 | *    | 150 | D1 | 1/7/1999   | 5:30  | 1/7/1999   | 23:49 | 18.31  | 8656 | Precip Fouling  |
| 521 | 158 | Oak Creek #5 | *    | 210 | D1 | 1/8/1999   | 6:30  | 1/12/1999  | 0:52  | 90.36  | 1040 | Tube Leak Trying to maintain 2100 Throttle Pressure               |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 1/12/1999  | 0:52  | 1/15/1999  | 10:34 | 81.69  | 1040 | Tube Leak Repair  |
| 521 | 158 | Oak Creek #5 | *    | 180 | D1 | 1/17/1999  | 21:00 | 1/21/1999  | 19:50 | 94.83  | 340  | 52 Mill Ribbon Conveyor   |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 1/21/1999  | 19:50 | 1/22/1999  | 5:49  | 9.98   | 1799 | DCS Drop 5 Problems   |
| 521 | 158 | Oak Creek #5 | *    | 180 | D1 | 1/22/1999  | 5:49  | 1/23/1999  | 12:40 | 30.85  | 340  | 52 Mill Ribbon Conveyor   |
| 521 | 158 | Oak Creek #5 | *    | 205 | D1 | 1/23/1999  | 18:00 | 1/25/1999  | 18:00 | 48     | 340  | Other Pulverizer Problems   |
| 521 | 158 | Oak Creek #5 | *    | 160 | D1 | 1/26/1999  | 16:30 | 1/26/1999  | 23:00 | 6.5    | 340  | Other Pulverizer Problems   |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 1/30/1999  | 10:22 | 1/30/1999  | 11:36 | 1.23   | 1020 | TBFP Trip - Back Pressure   |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 1/30/1999  | 12:01 | 1/30/1999  | 14:21 | 2.33   | 4609 | Exciter Problems  |
| 521 | 158 | Oak Creek #5 | 00*0 | 160 | D1 | 2/2/1999   | 7:43  | 2/2/1999   | 8:22  | 0.65   | 335  | Pulverizer Lube Oil   |
| 521 | 158 | Oak Creek #5 | 00*0 | 220 | D1 | 3/1/1999   | 7:10  | 3/1/1999   | 9:00  | 1.83   | 8656 | Precip Fouling - Hi Opacity                                       |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 3/27/1999  | 8:58  | 4/1/1999   | 18:30 | 129.53 | 1080 | Economizer Tube Leak  |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 4/1/1999   | 18:30 | 4/4/1999   | 19:46 | 73.26  | 0    | Reserve Shutdown  |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 4/27/1999  | 1:34  | 4/28/1999  | 15:00 | 37.43  | 1060 | Reheat Tube Repair  |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 4/28/1999  | 15:00 | 5/2/1999   | 19:33 | 100.55 | 3431 | Repair FW Tie Valves  |
| 521 | 158 | Oak Creek #5 | *    | 145 | D1 | 5/22/1999  | 19:55 | 5/22/1999  | 20:50 | 0.91   | 250  | 53 Feeder Trip  |
| 521 | 158 | Oak Creek #5 | *    | 120 | D1 | 5/26/1999  | 12:00 | 5/26/1999  | 14:00 | 2      | 3261 | Traveling Water Screen Fouling                                    |
| 521 | 158 | Oak Creek #5 | 00*0 | 150 | D1 | 6/2/1999   | 6:00  | 6/2/1999   | 9:30  | 3.5    | 340  | 51A Exhauster Fan Bearing   |
| 521 | 158 | Oak Creek #5 | 00*0 | 160 | D1 | 6/15/1999  | 7:55  | 6/15/1999  | 18:00 | 10.08  | 205  | Pulverizer Exhauster Fan Drive                                    |
| 521 | 158 | Oak Creek #5 | *    |     | NC | 6/15/1999  | 18:01 | 6/16/1999  | 8:00  | 13.98  | 205  | Pulverizer Exhauster Fan Drive                                    |
| 521 | 158 | Oak Creek #5 | *    | 165 | D1 | 6/16/1999  | 8:01  | 6/16/1999  | 23:00 | 14.98  | 205  | Pulverizer Exhauster Fan Drive                                    |

|     |     |              |      |     |    |            |       |            |       |        |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|--|
| 521 | 158 | Oak Creek #5 | *    |     | NC | 6/16/1999  | 23:01 | 6/17/1999  | 8:00  | 8.98   | 205  | Pulverizer Exhauster Fan Drive   |
| 521 | 158 | Oak Creek #5 | *    | 175 | D1 | 6/17/1999  | 8:01  | 6/17/1999  | 19:30 | 11.48  | 205  | Pulverizer Exhauster Fan Drive   |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 6/24/1999  | 4:35  | 6/24/1999  | 5:16  | 0.68   | 1750 | Unit Trip On Loss of Flame Scanner On 1A & 2A Ignitor                          |
| 521 | 158 | Oak Creek #5 | *    | 165 | D1 | 6/28/1999  | 7:00  | 6/28/1999  | 10:20 | 3.33   | 340  | Other Pulverizer Problems  |
| 521 | 158 | Oak Creek #5 | *    | 165 | D1 | 7/4/1999   | 21:55 | 7/5/1999   | 4:38  | 6.71   | 340  | 52B Exhauster Cap Dmpr & Other Pulv Problems                                   |
| 521 | 158 | Oak Creek #5 | *    | 140 | PD | 7/17/1999  | 23:30 | 7/18/1999  | 2:50  | 3.33   | 205  | 53 Mill Pulverizer Exhauster   |
| 521 | 158 | Oak Creek #5 | *    | 170 | D1 | 7/21/1999  | 20:00 | 7/22/1999  | 4:30  | 8.5    | 4620 | Transformer 851 Cooling Problems   |
| 521 | 158 | Oak Creek #5 | *    | 130 | D1 | 8/13/1999  | 20:17 | 8/13/1999  | 21:30 | 1.21   | 3261 | Traveling Water Screen Fouling   |
| 521 | 158 | Oak Creek #5 | *    |     | U2 | 8/17/1999  | 8:11  | 8/17/1999  | 13:07 | 4.93   | 3261 | Traveling Water Screen Fouling   |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 8/17/1999  | 13:53 | 8/23/1999  | 14:11 | 144.3  | 1040 | Superheat Tube Leak  |
| 521 | 158 | Oak Creek #5 | *    | 170 | D1 | 9/7/1999   | 10:00 | 9/7/1999   | 11:55 | 1.91   | 330  | 52 A Exhauster Coal Leak   |
| 521 | 158 | Oak Creek #5 | *    | 170 | D4 | 9/10/1999  | 21:55 | 9/11/1999  | 22:00 | 24.08  | 330  | 52 A Exhauster Coal Leak   |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 9/14/1999  | 23:28 | 9/14/1999  | 23:58 | 0.5    | 370  | Loss of Flame Scanners 1A/2A   |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 9/17/1999  | 12:00 | 9/29/1999  | 18:27 | 294.45 | 0    | Reserve Shutdown   |
| 521 | 158 | Oak Creek #5 | *    |     | MO | 10/23/1999 | 2:15  | 10/26/1999 | 2:25  | 72.16  | 3431 | Repair of Feed Pmp Discharge Limitorque Viv                                    |
| 521 | 158 | Oak Creek #5 | *    |     | U1 | 10/26/1999 | 3:31  | 10/26/1999 | 11:14 | 7.71   | 4309 | LS NUI Meter in Cntrl Rm Was Not Calibrated With Action Pack in Bazler Cabinet |
| 521 | 158 | Oak Creek #5 | *    | 170 | D1 | 11/1/1999  | 17:22 | 11/3/1999  | 21:24 | 52.03  | 205  | Pulverizer Exhauster Fan Drive   |
| 521 | 158 | Oak Creek #5 | 00*0 | 140 | D1 | 11/30/1999 | 5:00  | 11/30/1999 | 17:52 | 12.86  | 410  | 53 Mill BSOG Piston  |
| 521 | 158 | Oak Creek #5 | *    | 120 | D1 | 12/29/1999 | 4:30  | 12/30/1999 | 3:30  | 23     | 3811 | Service Water Line Leak  |
| 521 | 158 | Oak Creek #5 | *    |     | RS | 12/30/1999 | 8:27  | 12/31/1999 | 23:59 | 39.53  | 0    | Reserve Shutdown   |
| 521 | 168 | Oak Creek #6 | 211  |     | D1 | 1/3/1975   | 17:45 | 1/8/1975   | 3:30  | 105.75 | 340  |  |
| 521 | 168 | Oak Creek #6 | 211  |     | D1 | 1/17/1975  | 8:00  | 1/17/1975  | 16:00 | 8      | 3999 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 1/18/1975  | 0:11  | 1/19/1975  | 0:19  | 24.13  | 1080 |  |
| 521 | 168 | Oak Creek #6 | 240  |     | D1 | 1/23/1975  | 6:00  | 1/25/1975  | 1:09  | 43.15  | 1060 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 1/25/1975  | 1:09  | 1/26/1975  | 8:28  | 31.31  | 1060 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 2/1/1975   | 1:42  | 2/2/1975   | 22:34 | 44.86  | 1060 |  |
| 521 | 168 | Oak Creek #6 | 206  |     | D1 | 2/19/1975  | 4:30  | 2/20/1975  | 14:30 | 34     | 3440 |  |
| 521 | 168 | Oak Creek #6 | 126  |     | D1 | 2/26/1975  | 11:00 | 2/27/1975  | 7:40  | 20.66  | 340  |  |
| 521 | 168 | Oak Creek #6 | 126  |     | D1 | 3/4/1975   | 14:00 | 3/6/1975   | 7:45  | 41.75  | 340  |  |
| 521 | 168 | Oak Creek #6 | 126  |     | D1 | 3/6/1975   | 7:45  | 3/6/1975   | 19:50 | 12.08  | 340  |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 3/6/1975   | 19:50 | 3/7/1975   | 13:22 | 17.53  | 1080 |  |
| 521 | 168 | Oak Creek #6 | 210  |     | D1 | 3/11/1975  | 9:45  | 3/11/1975  | 21:49 | 12.06  | 1040 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 3/11/1975  | 21:49 | 3/13/1975  | 10:36 | 36.78  | 1040 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 3/28/1975  | 23:39 | 3/30/1975  | 1:31  | 25.86  | 1060 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 3/30/1975  | 2:44  | 3/30/1975  | 2:46  | 3      | 4899 |  |
| 521 | 168 | Oak Creek #6 | 200  |     | D1 | 4/2/1975   | 21:00 | 4/3/1975   | 13:25 | 16.41  | 3440 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 4/6/1975   | 2:43  | 4/7/1975   | 0:18  | 21.58  | 1060 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 4/17/1975  | 0:12  | 4/19/1975  | 0:10  | 47.96  | 1060 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 4/19/1975  | 8:39  | 4/19/1975  | 20:03 | 11.4   | 4099 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 5/1/1975   | 23:50 | 5/5/1975   | 2:05  | 74.25  | 1060 |  |
| 521 | 168 | Oak Creek #6 | 175  |     | D1 | 5/9/1975   | 0:01  | 5/15/1975  | 0:01  | 144    | 9290 |  |

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|     |     |              |     |    |            |       |            |          |        |      |
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| 521 | 168 | Oak Creek #6 |     | NC | 5/10/1975  | 23:00 | 5/11/1975  | 18:30    | 19.5   | 3440 |
| 521 | 168 | Oak Creek #6 | 199 | D1 | 5/19/1975  | 8:00  | 5/29/1975  | 5:45     | 237.75 | 3999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 5/19/1975  | 23:31 | 5/21/1975  | 4:02     | 28.51  | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 5/27/1975  | 0:03  | 5/27/1975  | 22:52    | 22.81  | 1060 |
| 521 | 168 | Oak Creek #6 | 190 | D1 | 6/6/1975   | 14:00 | 6/7/1975   | 0:30     | 10.5   | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 6/7/1975   | 0:30  | 6/9/1975   | 0:16     | 47.76  | 1040 |
| 521 | 168 | Oak Creek #6 | 200 | D1 | 6/10/1975  | 23:15 | 6/11/1975  | 17:10    | 17.91  | 3440 |
| 521 | 168 | Oak Creek #6 | 200 | D1 | 6/30/1975  | 5:00  | 6/30/1975  | 19:30    | 14.5   | 3440 |
| 521 | 168 | Oak Creek #6 | 120 | D1 | 7/8/1975   | 15:45 | 7/9/1975   | 8:45     | 17     | 3440 |
| 521 | 168 | Oak Creek #6 | 186 | D1 | 7/9/1975   | 10:45 | 7/9/1975   | 18:30    | 7.75   | 3440 |
| 521 | 168 | Oak Creek #6 | 165 | D1 | 7/23/1975  | 9:00  | 7/24/1975  | 14:30    | 29.5   | 1455 |
| 521 | 168 | Oak Creek #6 | 120 | D1 | 7/30/1975  | 10:20 | 7/31/1975  | 7:35     | 21.25  | 340  |
| 521 | 168 | Oak Creek #6 | 120 | D1 | 7/31/1975  | 10:00 | 7/31/1975  | 12:16    | 2.26   | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/1/1975   | 23:28 | 8/2/1975   | 9:12     | 9.73   | 1999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/3/1975   | 0:12  | 8/3/1975   | 5:05     | 4.88   | 1999 |
| 521 | 168 | Oak Creek #6 | 120 | D1 | 8/3/1975   | 5:05  | 8/4/1975   | 9:25     | 28.33  | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/8/1975   | 22:05 | 8/11/1975  | 1:22     | 51.28  | 1060 |
| 521 | 168 | Oak Creek #6 | 136 | D1 | 8/11/1975  | 15:50 | 8/12/1975  | 6:15     | 14.41  | 340  |
| 521 | 168 | Oak Creek #6 | 200 | D1 | 8/12/1975  | 10:30 | 8/13/1975  | 5:00     | 18.5   | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/17/1975  | 0:19  | 8/17/1975  | 7:18     | 6.98   | 1060 |
| 521 | 168 | Oak Creek #6 | 196 | D1 | 8/19/1975  | 16:00 | 8/19/1975  | 23:00    | 7      | 3440 |
| 521 | 168 | Oak Creek #6 | 121 | D1 | 8/21/1975  | 9:30  | 8/21/1975  | 15:45    | 6.25   | 340  |
| 521 | 168 | Oak Creek #6 | 121 | D1 | 8/25/1975  | 12:25 | 8/25/1975  | 20:30    | 8.08   | 340  |
| 521 | 168 | Oak Creek #6 | 127 | D1 | 9/1/1975   | 14:00 | 9/5/1975   | 23:50    | 105.83 | 340  |
| 521 | 168 | Oak Creek #6 | 71  | D1 | 9/2/1975   | 17:30 | 9/3/1975   | 8:30     | 15     | 3440 |
| 521 | 168 | Oak Creek #6 | 200 | D1 | 9/6/1975   | 13:00 | 9/6/1975   | 17:50    | 4.83   | 3440 |
| 521 | 168 | Oak Creek #6 | 122 | D1 | 9/7/1975   | 16:05 | 9/8/1975   | 6:00     | 13.91  | 340  |
| 521 | 168 | Oak Creek #6 | 170 | D1 | 9/13/1975  | 10:15 | 9/13/1975  | 17:15    | 7      | 1455 |
| 521 | 168 | Oak Creek #6 |     | MO | 9/13/1975  | 19:15 | 9/14/1975  | 6:32     | 11.28  | 3440 |
| 521 | 168 | Oak Creek #6 | 190 | D1 | 9/16/1975  | 12:45 | 9/17/1975  | 10:10    | 21.41  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 9/17/1975  | 22:06 | 9/19/1975  | 13:40    | 39.56  | 1040 |
| 521 | 168 | Oak Creek #6 |     | U1 | 9/20/1975  | 23:32 | 9/22/1975  | 5:21     | 29.81  | 1040 |
| 521 | 168 | Oak Creek #6 | 90  | D1 | 9/23/1975  | 13:00 | 9/23/1975  | 23:06    | 10.1   | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 9/23/1975  | 23:06 | 9/25/1975  | 2:55     | 27.81  | 1060 |
| 521 | 168 | Oak Creek #6 | 200 | D1 | 9/26/1975  | 8:00  | 9/27/1975  | 22:30    | 38.5   | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 9/27/1975  | 22:30 | 9/29/1975  | 1:47     | 27.28  | 1060 |
| 521 | 168 | Oak Creek #6 | 150 | D1 | 9/29/1975  | 20:30 | 10/1/1975  | 3:30     | 31     | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 10/1/1975  | 22:37 | 10/4/1975  | 4:40     | 54.05  | 1060 |
| 521 | 168 | Oak Creek #6 | 218 | D1 | 10/8/1975  | 15:00 | 12/31/1975 | 24:00:00 | 2049   | 4099 |
| 521 | 168 | Oak Creek #6 | 188 | D1 | 10/9/1975  | 12:10 | 10/10/1975 | 5:00     | 16.83  | 3440 |
| 521 | 168 | Oak Creek #6 | 189 | D1 | 10/10/1975 | 5:00  | 10/11/1975 | 4:18     | 23.3   | 4099 |
| 521 | 168 | Oak Creek #6 | 165 | D1 | 10/10/1975 | 23:30 | 10/11/1975 | 22:15    | 22.75  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 10/11/1975 | 4:18  | 10/11/1975 | 7:31     | 3.21   | 9320 |
| 521 | 168 | Oak Creek #6 | 188 | D1 | 10/12/1975 | 20:05 | 10/13/1975 | 10:00    | 13.91  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 10/15/1975 | 11:41 | 10/17/1975 | 15:34    | 51.88  | 1040 |
| 521 | 168 | Oak Creek #6 | 128 | D1 | 10/30/1975 | 12:30 | 10/30/1975 | 14:30    | 2      | 3999 |

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|     |     |              |     |    |            |       |            |       |        |      |
|-----|-----|--------------|-----|----|------------|-------|------------|-------|--------|------|
| 521 | 168 | Oak Creek #6 | 188 | D1 | 10/30/1975 | 15:00 | 10/31/1975 | 4:30  | 13.5   | 3440 |
| 521 | 168 | Oak Creek #6 | 190 | D1 | 11/4/1975  | 2:00  | 11/4/1975  | 19:00 | 17     | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 11/4/1975  | 12:47 | 11/6/1975  | 0:14  | 35.45  | 1040 |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 11/10/1975 | 12:45 | 11/11/1975 | 4:55  | 16.16  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 11/17/1975 | 0:17  | 11/18/1975 | 15:03 | 38.76  | 1080 |
| 521 | 168 | Oak Creek #6 | 190 | D1 | 11/22/1975 | 11:35 | 11/23/1975 | 8:50  | 21.25  | 3440 |
| 521 | 168 | Oak Creek #6 | 150 | D1 | 11/25/1975 | 16:30 | 11/27/1975 | 7:00  | 38.5   | 340  |
| 521 | 168 | Oak Creek #6 | 90  | D1 | 11/26/1975 | 4:30  | 11/26/1975 | 19:15 | 14.75  | 340  |
| 521 | 168 | Oak Creek #6 | 170 | D1 | 11/29/1975 | 5:45  | 11/29/1975 | 16:40 | 10.91  | 3440 |
| 521 | 168 | Oak Creek #6 | 190 | D1 | 11/30/1975 | 19:45 | 12/1/1975  | 13:15 | 41.5   | 3440 |
| 521 | 168 | Oak Creek #6 | 170 | D1 | 12/3/1975  | 4:00  | 12/3/1975  | 16:30 | 12.5   | 3440 |
| 521 | 168 | Oak Creek #6 | 150 | D1 | 12/10/1975 | 12:10 | 12/11/1975 | 5:00  | 16.83  | 3440 |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 12/11/1975 | 5:00  | 12/11/1975 | 17:25 | 12.41  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 12/12/1975 | 1:10  | 12/14/1975 | 1:44  | 48.56  | 1060 |
| 521 | 168 | Oak Creek #6 | 170 | D1 | 12/22/1975 | 9:30  | 12/22/1975 | 11:30 | 2      | 340  |
| 521 | 168 | Oak Creek #6 |     | MO | 12/27/1975 | 6:53  | 12/28/1975 | 22:47 | 39.9   | 1999 |
| 521 | 168 | Oak Creek #6 | 222 | D1 | 1/1/1976   | 0:01  | 1/10/1976  | 0:32  | 216.51 | 4099 |
| 521 | 168 | Oak Creek #6 | 177 | D1 | 1/4/1976   | 12:15 | 1/5/1976   | 5:25  | 17.16  | 3440 |
| 521 | 168 | Oak Creek #6 | 177 | D1 | 1/5/1976   | 9:00  | 1/7/1976   | 3:15  | 42.25  | 3440 |
| 521 | 168 | Oak Creek #6 | 177 | D1 | 1/7/1976   | 16:00 | 1/7/1976   | 18:30 | 2.5    | 3440 |
| 521 | 168 | Oak Creek #6 | 112 | D1 | 1/7/1976   | 18:30 | 1/8/1976   | 17:50 | 23.33  | 1999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 1/9/1976   | 20:47 | 1/9/1976   | 21:32 | 0.75   | 4301 |
| 521 | 168 | Oak Creek #6 |     | PO | 1/10/1976  | 0:32  | 2/11/1976  | 14:26 | 781.9  | 1999 |
| 521 | 168 | Oak Creek #6 | 90  | D1 | 2/11/1976  | 14:26 | 2/13/1976  | 9:00  | 42.56  | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 2/14/1976  | 23:58 | 2/15/1976  | 0:42  | 0.73   | 4301 |
| 521 | 168 | Oak Creek #6 | 231 | D1 | 2/16/1976  | 13:00 | 2/16/1976  | 15:30 | 2.5    | 4099 |
| 521 | 168 | Oak Creek #6 | 206 | D1 | 2/19/1976  | 8:00  | 2/19/1976  | 16:50 | 8.83   | 3999 |
| 521 | 168 | Oak Creek #6 | 116 | D1 | 2/29/1976  | 10:00 | 3/2/1976   | 10:00 | 24     | 340  |
| 521 | 168 | Oak Creek #6 | 181 | D1 | 3/2/1976   | 19:05 | 3/3/1976   | 7:50  | 12.75  | 3440 |
| 521 | 168 | Oak Creek #6 | 136 | D1 | 3/4/1976   | 8:10  | 3/5/1976   | 2:25  | 18.25  | 3440 |
| 521 | 168 | Oak Creek #6 | 90  | D1 | 3/7/1976   | 5:30  | 3/7/1976   | 16:00 | 10.5   | 340  |
| 521 | 168 | Oak Creek #6 | 181 | D1 | 3/13/1976  | 12:00 | 3/14/1976  | 16:00 | 28     | 3440 |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 3/14/1976  | 16:00 | 3/17/1976  | 10:45 | 66.75  | 3440 |
| 521 | 168 | Oak Creek #6 |     | MO | 3/19/1976  | 23:24 | 3/22/1976  | 16:37 | 65.21  | 1999 |
| 521 | 168 | Oak Creek #6 | 150 | D1 | 3/29/1976  | 9:15  | 3/30/1976  | 3:35  | 18.33  | 3440 |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 3/31/1976  | 8:00  | 4/1/1976   | 5:30  | 21.5   | 3440 |
| 521 | 168 | Oak Creek #6 | 116 | D1 | 4/7/1976   | 23:00 | 4/9/1976   | 6:45  | 31.75  | 3440 |
| 521 | 168 | Oak Creek #6 | 205 | D1 | 4/9/1976   | 18:00 | 4/10/1976  | 10:00 | 16     | 3999 |
| 521 | 168 | Oak Creek #6 | 131 | D1 | 4/12/1976  | 10:15 | 4/12/1976  | 21:51 | 11.6   | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 4/12/1976  | 21:50 | 4/13/1976  | 12:03 | 14.21  | 340  |
| 521 | 168 | Oak Creek #6 | 156 | D1 | 4/13/1976  | 13:30 | 4/14/1976  | 6:30  | 17     | 3440 |
| 521 | 168 | Oak Creek #6 | 126 | D1 | 4/16/1976  | 5:45  | 4/16/1976  | 7:30  | 1.75   | 340  |
| 521 | 168 | Oak Creek #6 | 161 | D1 | 4/17/1976  | 20:15 | 4/19/1976  | 10:23 | 38.13  | 3440 |
| 521 | 168 | Oak Creek #6 | 136 | D1 | 4/17/1976  | 21:00 | 4/18/1976  | 19:00 | 22     | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 4/21/1976  | 1:41  | 4/23/1976  | 11:22 | 57.68  | 1060 |
| 521 | 168 | Oak Creek #6 | 51  | D1 | 4/23/1976  | 17:00 | 4/24/1976  | 5:00  | 12     | 340  |

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|     |     |              |     |    |           |       |            |       |        |      |
|-----|-----|--------------|-----|----|-----------|-------|------------|-------|--------|------|
| 521 | 168 | Oak Creek #6 | 160 | D1 | 5/6/1976  | 13:15 | 5/7/1976   | 13:30 | 24.25  | 3440 |
| 521 | 168 | Oak Creek #6 | 90  | D1 | 5/8/1976  | 0:01  | 6/6/1976   | 21:00 | 716.98 | 340  |
| 521 | 168 | Oak Creek #6 |     | MO | 5/12/1976 | 22:40 | 5/17/1976  | 20:44 | 118.06 | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 5/31/1976 | 11:49 | 6/1/1976   | 5:30  | 17.68  | 3999 |
| 521 | 168 | Oak Creek #6 | 204 | D1 | 6/8/1976  | 11:00 | 6/12/1976  | 4:25  | 89.41  | 1060 |
| 521 | 168 | Oak Creek #6 | 144 | D1 | 6/8/1976  | 20:50 | 6/12/1976  | 4:25  | 79.58  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 6/9/1976  | 23:23 | 6/12/1976  | 4:25  | 53.03  | 1060 |
| 521 | 168 | Oak Creek #6 | 120 | D1 | 6/17/1976 | 2:00  | 6/18/1976  | 9:40  | 31.66  | 3440 |
| 521 | 168 | Oak Creek #6 | 150 | D1 | 6/21/1976 | 12:00 | 6/21/1976  | 23:30 | 11.5   | 3440 |
| 521 | 168 | Oak Creek #6 | 90  | D1 | 6/22/1976 | 14:00 | 6/23/1976  | 6:00  | 16     | 340  |
| 521 | 168 | Oak Creek #6 | 125 | D1 | 6/24/1976 | 19:00 | 6/25/1976  | 9:25  | 14.41  | 3440 |
| 521 | 168 | Oak Creek #6 | 95  | D1 | 6/24/1976 | 22:00 | 6/25/1976  | 6:30  | 8.5    | 340  |
| 521 | 168 | Oak Creek #6 | 120 | D1 | 6/27/1976 | 9:30  | 6/28/1976  | 0:30  | 15     | 3440 |
| 521 | 168 | Oak Creek #6 | 150 | D1 | 6/28/1976 | 0:30  | 6/28/1976  | 11:55 | 11.41  | 3440 |
| 521 | 168 | Oak Creek #6 | 145 | D1 | 7/8/1976  | 1:15  | 7/8/1976   | 14:30 | 13.25  | 1455 |
| 521 | 168 | Oak Creek #6 | 90  | D1 | 7/8/1976  | 8:30  | 7/8/1976   | 14:30 | 6      | 1455 |
| 521 | 168 | Oak Creek #6 | 90  | PD | 7/9/1976  | 8:30  | 7/9/1976   | 14:50 | 6.33   | 1999 |
| 521 | 168 | Oak Creek #6 | 90  | D1 | 7/12/1976 | 6:00  | 7/12/1976  | 22:35 | 16.58  | 435  |
| 521 | 168 | Oak Creek #6 | 150 | D1 | 7/16/1976 | 6:45  | 7/17/1976  | 5:45  | 23     | 3440 |
| 521 | 168 | Oak Creek #6 | 140 | D1 | 7/23/1976 | 14:30 | 7/25/1976  | 6:30  | 40     | 3440 |
| 521 | 168 | Oak Creek #6 | 135 | D1 | 7/27/1976 | 12:00 | 7/28/1976  | 2:30  | 14.5   | 340  |
| 521 | 168 | Oak Creek #6 | 135 | D1 | 7/30/1976 | 22:00 | 8/1/1976   | 16:00 | 42     | 3440 |
| 521 | 168 | Oak Creek #6 | 190 | D1 | 8/3/1976  | 13:00 | 8/3/1976   | 22:00 | 9      | 3999 |
| 521 | 168 | Oak Creek #6 | 210 | D1 | 8/4/1976  | 6:45  | 8/5/1976   | 4:00  | 21.25  | 3999 |
| 521 | 168 | Oak Creek #6 | 131 | D1 | 8/9/1976  | 3:35  | 8/16/1976  | 22:30 | 186.91 | 340  |
| 521 | 168 | Oak Creek #6 | 32  | D1 | 8/10/1976 | 5:30  | 8/11/1976  | 11:30 | 30     | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/11/1976 | 23:35 | 8/16/1976  | 10:17 | 106.7  | 1060 |
| 521 | 168 | Oak Creek #6 |     | MO | 8/11/1976 | 23:35 | 8/16/1976  | 10:17 | 106.7  | 1999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/21/1976 | 0:52  | 8/23/1976  | 0:10  | 47.3   | 1060 |
| 521 | 168 | Oak Creek #6 | 191 | D1 | 8/23/1976 | 0:10  | 8/23/1976  | 16:00 | 15.83  | 3440 |
| 521 | 168 | Oak Creek #6 | 191 | D1 | 8/23/1976 | 17:15 | 8/24/1976  | 6:00  | 12.75  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/28/1976 | 2:01  | 8/30/1976  | 1:09  | 47.13  | 1060 |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 9/1/1976  | 5:00  | 9/3/1976   | 8:00  | 51     | 340  |
| 521 | 168 | Oak Creek #6 | 187 | D1 | 9/10/1976 | 12:30 | 9/10/1976  | 14:30 | 2      | 3440 |
| 521 | 168 | Oak Creek #6 | 177 | D1 | 9/10/1976 | 14:30 | 9/11/1976  | 2:45  | 12.25  | 3440 |
| 521 | 168 | Oak Creek #6 | 192 | D1 | 9/11/1976 | 2:45  | 9/11/1976  | 16:00 | 13.25  | 3440 |
| 521 | 168 | Oak Creek #6 | 122 | D1 | 9/13/1976 | 20:15 | 9/14/1976  | 8:00  | 11.75  | 3440 |
| 521 | 168 | Oak Creek #6 | 167 | D1 | 9/18/1976 | 13:15 | 9/19/1976  | 3:00  | 13.75  | 3440 |
| 521 | 168 | Oak Creek #6 | 107 | D1 | 9/20/1976 | 21:00 | 9/21/1976  | 1:15  | 4.25   | 340  |
| 521 | 168 | Oak Creek #6 | 117 | D1 | 9/22/1976 | 15:00 | 9/23/1976  | 10:45 | 19.75  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 9/25/1976 | 1:15  | 9/27/1976  | 2:49  | 49.56  | 1060 |
| 521 | 168 | Oak Creek #6 | 217 | D1 | 9/28/1976 | 4:00  | 9/28/1976  | 12:47 | 8.78   | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 9/28/1976 | 12:47 | 9/29/1976  | 4:25  | 15.63  | 1060 |
| 521 | 168 | Oak Creek #6 | 149 | D1 | 10/5/1976 | 12:00 | 10/6/1976  | 18:00 | 30     | 3440 |
| 521 | 168 | Oak Creek #6 | 149 | D1 | 10/7/1976 | 16:00 | 10/8/1976  | 9:55  | 17.91  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 10/9/1976 | 2:09  | 10/11/1976 | 6:10  | 52.01  | 1060 |

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|     |     |              |     |    |            |       |            |          |        |      |
|-----|-----|--------------|-----|----|------------|-------|------------|----------|--------|------|
| 521 | 168 | Oak Creek #6 | 149 | D1 | 10/15/1976 | 10:30 | 10/16/1976 | 20:00    | 33.5   | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 10/16/1976 | 1:36  | 10/17/1976 | 3:08     | 25.53  | 1060 |
| 521 | 168 | Oak Creek #6 | 149 | D1 | 10/17/1976 | 13:40 | 10/20/1976 | 19:30    | 77.83  | 3440 |
| 521 | 168 | Oak Creek #6 | 124 | D1 | 10/19/1976 | 13:40 | 10/21/1976 | 20:30    | 54.83  | 3440 |
| 521 | 168 | Oak Creek #6 | 149 | D1 | 10/21/1976 | 20:30 | 10/23/1976 | 7:00     | 34.5   | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 10/23/1976 | 23:40 | 10/24/1976 | 16:56    | 17.26  | 1000 |
| 521 | 168 | Oak Creek #6 | 149 | D1 | 10/27/1976 | 12:00 | 10/28/1976 | 5:30     | 17.5   | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 10/30/1976 | 0:10  | 11/1/1976  | 4:03     | 51.88  | 1060 |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 11/4/1976  | 20:00 | 11/5/1976  | 8:20     | 12.33  | 3440 |
| 521 | 168 | Oak Creek #6 | 96  | D1 | 11/4/1976  | 20:30 | 11/5/1976  | 3:15     | 6.75   | 3999 |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 11/9/1976  | 21:00 | 11/10/1976 | 11:15    | 14.25  | 3440 |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 11/10/1976 | 22:30 | 11/11/1976 | 9:30     | 11     | 3440 |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 11/12/1976 | 0:30  | 11/12/1976 | 17:05    | 16.58  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 11/13/1976 | 0:31  | 11/15/1976 | 4:50     | 52.31  | 1040 |
| 521 | 168 | Oak Creek #6 |     | U1 | 11/16/1976 | 2:11  | 11/16/1976 | 23:00    | 20.81  | 1060 |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 11/18/1976 | 22:00 | 11/19/1976 | 12:45    | 14.75  | 3440 |
| 521 | 168 | Oak Creek #6 | 191 | D1 | 11/21/1976 | 11:00 | 11/22/1976 | 11:45    | 24.75  | 340  |
| 521 | 168 | Oak Creek #6 | 91  | D1 | 11/21/1976 | 12:00 | 11/22/1976 | 9:00     | 21     | 3440 |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 11/23/1976 | 10:00 | 11/24/1976 | 2:30     | 16.5   | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 11/25/1976 | 4:11  | 11/27/1976 | 7:35     | 51.4   | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 11/30/1976 | 23:39 | 12/2/1976  | 10:30    | 58.85  | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 12/4/1976  | 2:45  | 12/6/1976  | 6:14     | 51.48  | 1060 |
| 521 | 168 | Oak Creek #6 | 176 | D1 | 12/6/1976  | 15:25 | 12/7/1976  | 5:10     | 13.75  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 12/11/1976 | 1:14  | 12/12/1976 | 3:22     | 26.13  | 1060 |
| 521 | 168 | Oak Creek #6 | 176 | D1 | 12/12/1976 | 14:15 | 12/13/1976 | 5:30     | 15.25  | 3440 |
| 521 | 168 | Oak Creek #6 | 226 | D1 | 12/14/1976 | 16:30 | 12/15/1976 | 3:00     | 10.5   | 250  |
| 521 | 168 | Oak Creek #6 |     | U1 | 12/16/1976 | 1:36  | 12/17/1976 | 0:10     | 22.56  | 1060 |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 12/17/1976 | 16:45 | 12/18/1976 | 9:05     | 16.33  | 3440 |
| 521 | 168 | Oak Creek #6 | 51  | D1 | 12/17/1976 | 16:45 | 12/18/1976 | 9:05     | 16.33  | 3440 |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 12/18/1976 | 10:30 | 12/19/1976 | 0:45     | 14.25  | 3440 |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 12/21/1976 | 14:30 | 12/22/1976 | 17:05    | 26.58  | 3440 |
| 521 | 168 | Oak Creek #6 |     | MO | 12/24/1976 | 0:02  | 12/24/1976 | 1:14     | 1.2    | 4301 |
| 521 | 168 | Oak Creek #6 |     | PO | 12/24/1976 | 11:19 | 12/31/1976 | 24:00:00 | 180.68 | 1999 |
| 521 | 168 | Oak Creek #6 |     | PO | 1/1/1977   | 0:09  | 1/30/1977  | 22:36    | 718.45 | 1999 |
| 521 | 168 | Oak Creek #6 | 201 | D1 | 1/30/1977  | 22:36 | 2/1/1977   | 22:00    | 47.4   | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 2/1/1977   | 2:02  | 2/1/1977   | 2:53     | 0.85   | 4301 |
| 521 | 168 | Oak Creek #6 | 206 | D1 | 2/5/1977   | 7:40  | 2/5/1977   | 16:45    | 9.08   | 360  |
| 521 | 168 | Oak Creek #6 | 161 | D1 | 2/5/1977   | 7:40  | 2/6/1977   | 14:15    | 30.58  | 3999 |
| 521 | 168 | Oak Creek #6 | 161 | D1 | 2/6/1977   | 3:30  | 2/6/1977   | 14:15    | 10.75  | 360  |
| 521 | 168 | Oak Creek #6 | 170 | D1 | 2/8/1977   | 11:15 | 2/8/1977   | 20:25    | 9.16   | 1455 |
| 521 | 168 | Oak Creek #6 |     | U1 | 2/11/1977  | 22:37 | 2/13/1977  | 23:29    | 48.86  | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 2/19/1977  | 1:58  | 2/21/1977  | 0:03     | 46.08  | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 2/22/1977  | 20:51 | 2/24/1977  | 12:55    | 40.06  | 1080 |
| 521 | 168 | Oak Creek #6 | 191 | D1 | 3/3/1977   | 12:00 | 3/3/1977   | 14:30    | 2.5    | 1850 |
| 521 | 168 | Oak Creek #6 |     | U1 | 3/5/1977   | 1:25  | 3/7/1977   | 6:16     | 52.85  | 1060 |
| 521 | 168 | Oak Creek #6 | 200 | D1 | 3/7/1977   | 18:30 | 3/8/1977   | 8:00     | 13.5   | 250  |

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|     |     |              |     |  |    |            |       |            |       |       |      |
|-----|-----|--------------|-----|--|----|------------|-------|------------|-------|-------|------|
| 521 | 168 | Oak Creek #6 |     |  | U1 | 3/11/1977  | 22:40 | 3/14/1977  | 3:59  | 53.31 | 1060 |
| 521 | 168 | Oak Creek #6 | 191 |  | D1 | 3/14/1977  | 6:15  | 3/14/1977  | 9:16  | 3.01  | 1040 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 3/14/1977  | 9:16  | 3/16/1977  | 5:50  | 44.56 | 1040 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 4/3/1977   | 7:58  | 4/6/1977   | 4:12  | 68.23 | 1005 |
| 521 | 168 | Oak Creek #6 | 216 |  | D1 | 4/11/1977  | 6:15  | 4/11/1977  | 10:45 | 4.5   | 3999 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 5/7/1977   | 0:45  | 5/9/1977   | 3:38  | 50.88 | 1100 |
| 521 | 168 | Oak Creek #6 | 205 |  | D1 | 5/18/1977  | 6:55  | 5/18/1977  | 17:00 | 10.08 | 1486 |
| 521 | 168 | Oak Creek #6 | 205 |  | D1 | 5/19/1977  | 5:45  | 5/19/1977  | 10:50 | 5.08  | 1486 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 5/19/1977  | 22:20 | 5/20/1977  | 3:10  | 4.83  | 1060 |
| 521 | 168 | Oak Creek #6 | 180 |  | D1 | 5/24/1977  | 0:01  | 5/24/1977  | 4:40  | 4.65  | 3441 |
| 521 | 168 | Oak Creek #6 | 195 |  | D1 | 5/25/1977  | 14:30 | 5/26/1977  | 17:30 | 27    | 3440 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 5/28/1977  | 0:18  | 5/30/1977  | 15:19 | 63.01 | 1040 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 6/11/1977  | 1:18  | 6/14/1977  | 2:20  | 73.03 | 1060 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 6/14/1977  | 23:55 | 6/15/1977  | 5:17  | 5.36  | 1060 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 6/15/1977  | 23:59 | 6/17/1977  | 4:49  | 28.83 | 1040 |
| 521 | 168 | Oak Creek #6 | 200 |  | D1 | 6/25/1977  | 10:40 | 6/26/1977  | 8:00  | 21.33 | 3999 |
| 521 | 168 | Oak Creek #6 | 221 |  | D1 | 7/4/1977   | 23:00 | 7/5/1977   | 23:00 | 24    | 3999 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 7/7/1977   | 12:34 | 7/11/1977  | 2:56  | 86.36 | 1000 |
| 521 | 168 | Oak Creek #6 | 210 |  | D1 | 7/14/1977  | 0:30  | 7/14/1977  | 12:00 | 11.5  | 1999 |
| 521 | 168 | Oak Creek #6 | 156 |  | D1 | 7/16/1977  | 2:15  | 7/16/1977  | 3:00  | 0.75  | 1400 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 7/26/1977  | 18:36 | 7/27/1977  | 0:01  | 5.41  | 8560 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 7/31/1977  | 0:36  | 7/31/1977  | 20:08 | 19.53 | 1060 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 8/1/1977   | 23:51 | 8/2/1977   | 1:44  | 1.88  | 4609 |
| 521 | 168 | Oak Creek #6 | 190 |  | PD | 8/5/1977   | 1:00  | 8/5/1977   | 3:15  | 2.25  | 1999 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 8/11/1977  | 0:13  | 8/12/1977  | 15:49 | 39.59 | 1060 |
| 521 | 168 | Oak Creek #6 | 200 |  | D1 | 8/18/1977  | 8:30  | 8/19/1977  | 11:54 | 27.4  | 1486 |
| 521 | 168 | Oak Creek #6 | 196 |  | D1 | 8/26/1977  | 7:30  | 8/26/1977  | 14:30 | 7     | 250  |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 8/27/1977  | 0:15  | 8/29/1977  | 19:10 | 66.91 | 1060 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 9/9/1977   | 23:32 | 9/12/1977  | 4:48  | 53.26 | 1060 |
| 521 | 168 | Oak Creek #6 | 150 |  | D1 | 9/18/1977  | 2:30  | 9/18/1977  | 6:50  | 4.33  | 1455 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 9/18/1977  | 6:50  | 9/18/1977  | 23:58 | 17.13 | 1455 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 9/24/1977  | 1:48  | 9/26/1977  | 4:50  | 51.03 | 1040 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 9/28/1977  | 21:46 | 9/29/1977  | 6:29  | 8.71  | 340  |
| 521 | 168 | Oak Creek #6 | 210 |  | D1 | 10/14/1977 | 8:30  | 10/14/1977 | 12:30 | 4     | 3999 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 10/16/1977 | 9:11  | 10/22/1977 | 5:47  | 140.6 | 1005 |
| 521 | 168 | Oak Creek #6 | 201 |  | D1 | 11/17/1977 | 9:45  | 11/18/1977 | 23:46 | 38.01 | 1060 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 11/18/1977 | 23:46 | 11/21/1977 | 8:07  | 56.35 | 1060 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 11/25/1977 | 21:13 | 11/27/1977 | 1:23  | 28.16 | 1060 |
| 521 | 168 | Oak Creek #6 | 191 |  | D1 | 12/6/1977  | 10:50 | 12/7/1977  | 6:55  | 20.08 | 3440 |
| 521 | 168 | Oak Creek #6 | 176 |  | D1 | 12/11/1977 | 18:45 | 12/12/1977 | 12:00 | 17.25 | 3440 |
| 521 | 168 | Oak Creek #6 | 175 |  | D1 | 12/13/1977 | 17:20 | 12/14/1977 | 10:00 | 16.66 | 3440 |
| 521 | 168 | Oak Creek #6 | 190 |  | D1 | 12/18/1977 | 17:50 | 12/19/1977 | 8:40  | 14.83 | 3440 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 12/23/1977 | 0:33  | 12/24/1977 | 3:30  | 26.95 | 1060 |
| 521 | 168 | Oak Creek #6 | 196 |  | D1 | 1/2/1978   | 18:45 | 1/3/1978   | 7:30  | 12.75 | 3440 |
| 521 | 168 | Oak Creek #6 | 201 |  | D1 | 1/4/1978   | 8:00  | 1/4/1978   | 13:45 | 5.75  | 3999 |
| 521 | 168 | Oak Creek #6 |     |  | U1 | 1/4/1978   | 17:30 | 1/5/1978   | 23:40 | 30.16 | 1000 |

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|     |     |              |     |    |           |       |           |       |        |      |
|-----|-----|--------------|-----|----|-----------|-------|-----------|-------|--------|------|
| 521 | 168 | Oak Creek #6 |     | PO | 1/7/1978  | 1:13  | 2/28/1978 | 6:13  | 1253   | 1999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 2/28/1978 | 8:43  | 3/2/1978  | 4:10  | 43.45  | 4099 |
| 521 | 168 | Oak Creek #6 | 191 | D1 | 3/7/1978  | 8:30  | 3/10/1978 | 13:00 | 76.5   | 3999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 3/10/1978 | 21:48 | 3/11/1978 | 13:30 | 15.7   | 8560 |
| 521 | 168 | Oak Creek #6 | 201 | D1 | 3/16/1978 | 21:40 | 3/17/1978 | 6:25  | 8.75   | 3999 |
| 521 | 168 | Oak Creek #6 | 186 | D1 | 3/18/1978 | 0:01  | 3/20/1978 | 4:30  | 52.48  | 3999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 3/20/1978 | 19:05 | 3/20/1978 | 20:58 | 1.88   | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 3/21/1978 | 13:22 | 3/23/1978 | 4:47  | 39.41  | 1040 |
| 521 | 168 | Oak Creek #6 |     | U1 | 3/23/1978 | 20:15 | 3/26/1978 | 19:04 | 70.81  | 4640 |
| 521 | 168 | Oak Creek #6 | 176 | D1 | 3/27/1978 | 20:01 | 3/28/1978 | 15:45 | 19.73  | 3440 |
| 521 | 168 | Oak Creek #6 | 211 | D1 | 3/30/1978 | 16:00 | 3/30/1978 | 23:00 | 7      | 360  |
| 521 | 168 | Oak Creek #6 | 201 | D1 | 4/3/1978  | 9:30  | 4/3/1978  | 15:35 | 6.08   | 3999 |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 4/16/1978 | 18:45 | 4/17/1978 | 9:30  | 14.75  | 340  |
| 521 | 168 | Oak Creek #6 | 201 | D1 | 4/17/1978 | 9:30  | 4/17/1978 | 16:00 | 6.5    | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 4/18/1978 | 22:00 | 4/19/1978 | 6:06  | 8.1    | 4269 |
| 521 | 168 | Oak Creek #6 | 101 | D1 | 4/18/1978 | 22:00 | 4/19/1978 | 6:06  | 8.1    | 340  |
| 521 | 168 | Oak Creek #6 | 201 | D1 | 4/19/1978 | 6:06  | 4/19/1978 | 16:30 | 10.4   | 3440 |
| 521 | 168 | Oak Creek #6 | 101 | D1 | 4/22/1978 | 7:00  | 4/22/1978 | 9:45  | 2.75   | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 4/24/1978 | 0:45  | 4/24/1978 | 19:58 | 19.21  | 1080 |
| 521 | 168 | Oak Creek #6 | 201 | D1 | 4/28/1978 | 7:35  | 4/28/1978 | 16:30 | 8.91   | 360  |
| 521 | 168 | Oak Creek #6 |     | U1 | 5/11/1978 | 13:10 | 5/14/1978 | 11:58 | 70.8   | 1060 |
| 521 | 168 | Oak Creek #6 | 210 | D1 | 5/16/1978 | 7:45  | 5/16/1978 | 9:30  | 1.75   | 360  |
| 521 | 168 | Oak Creek #6 |     | U1 | 5/23/1978 | 9:29  | 5/24/1978 | 12:05 | 26.6   | 1080 |
| 521 | 168 | Oak Creek #6 | 235 | D1 | 5/25/1978 | 3:00  | 5/25/1978 | 7:30  | 4.5    | 3999 |
| 521 | 168 | Oak Creek #6 | 219 | D1 | 6/4/1978  | 21:50 | 6/5/1978  | 4:45  | 6.91   | 3999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 6/6/1978  | 13:06 | 6/8/1978  | 7:43  | 42.61  | 1000 |
| 521 | 168 | Oak Creek #6 | 139 | D1 | 6/22/1978 | 10:35 | 6/23/1978 | 9:45  | 23.16  | 1455 |
| 521 | 168 | Oak Creek #6 |     | U1 | 7/1/1978  | 0:57  | 7/5/1978  | 1:12  | 96.25  | 1060 |
| 521 | 168 | Oak Creek #6 | 76  | D1 | 7/5/1978  | 13:45 | 7/6/1978  | 1:30  | 11.75  | 340  |
| 521 | 168 | Oak Creek #6 | 156 | D1 | 7/7/1978  | 20:01 | 7/10/1978 | 22:00 | 73.98  | 1455 |
| 521 | 168 | Oak Creek #6 | 120 | D1 | 7/10/1978 | 22:00 | 7/14/1978 | 14:30 | 88.5   | 340  |
| 521 | 168 | Oak Creek #6 | 181 | D1 | 7/15/1978 | 10:15 | 7/16/1978 | 22:03 | 35.8   | 3440 |
| 521 | 168 | Oak Creek #6 | 191 | D1 | 7/19/1978 | 9:00  | 7/20/1978 | 2:30  | 17.5   | 3999 |
| 521 | 168 | Oak Creek #6 | 190 | D1 | 7/20/1978 | 7:00  | 7/23/1978 | 16:20 | 81.33  | 3999 |
| 521 | 168 | Oak Creek #6 | 140 | D1 | 7/22/1978 | 15:00 | 7/23/1978 | 16:20 | 25.33  | 3440 |
| 521 | 168 | Oak Creek #6 | 201 | D1 | 7/24/1978 | 7:30  | 7/28/1978 | 10:10 | 98.66  | 3440 |
| 521 | 168 | Oak Creek #6 | 166 | D1 | 7/26/1978 | 8:15  | 7/27/1978 | 3:00  | 18.75  | 3999 |
| 521 | 168 | Oak Creek #6 | 100 | D1 | 7/30/1978 | 23:00 | 8/4/1978  | 17:00 | 114    | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/2/1978  | 21:16 | 8/4/1978  | 5:04  | 31.8   | 1080 |
| 521 | 168 | Oak Creek #6 | 211 | D1 | 8/8/1978  | 12:18 | 8/14/1978 | 4:53  | 136.58 | 1455 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/12/1978 | 0:40  | 8/14/1978 | 4:53  | 52.21  | 1060 |
| 521 | 168 | Oak Creek #6 | 239 | D1 | 8/17/1978 | 8:30  | 8/18/1978 | 2:45  | 18.25  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/19/1978 | 0:22  | 8/21/1978 | 2:36  | 50.23  | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/25/1978 | 23:49 | 8/28/1978 | 1:29  | 49.66  | 1060 |
| 521 | 168 | Oak Creek #6 | 196 | D1 | 8/31/1978 | 18:00 | 8/31/1978 | 19:10 | 1.16   | 3999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 9/2/1978  | 0:21  | 9/5/1978  | 6:37  | 78.26  | 1060 |



|     |     |              |     |    |            |       |            |          |         |      |
|-----|-----|--------------|-----|----|------------|-------|------------|----------|---------|------|
| 521 | 168 | Oak Creek #6 | 182 | D1 | 9/6/1978   | 21:25 | 9/7/1978   | 13:30    | 16.08   | 3440 |
| 521 | 168 | Oak Creek #6 | 202 | D1 | 9/7/1978   | 13:30 | 9/7/1978   | 16:00    | 2.5     | 3999 |
| 521 | 168 | Oak Creek #6 | 187 | D1 | 9/8/1978   | 6:30  | 9/8/1978   | 8:30     | 2       | 3999 |
| 521 | 168 | Oak Creek #6 | 217 | D1 | 9/13/1978  | 4:20  | 9/14/1978  | 13:13    | 32.88   | 3999 |
| 521 | 168 | Oak Creek #6 | 222 | PD | 9/15/1978  | 10:30 | 9/16/1978  | 0:34     | 14.06   | 8550 |
| 521 | 168 | Oak Creek #6 |     | U1 | 9/16/1978  | 0:34  | 9/18/1978  | 3:45     | 51.18   | 1060 |
| 521 | 168 | Oak Creek #6 | 232 | D1 | 9/20/1978  | 10:45 | 9/20/1978  | 13:00    | 2.25    | 360  |
| 521 | 168 | Oak Creek #6 |     | U1 | 9/22/1978  | 23:49 | 9/26/1978  | 6:14     | 78.41   | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 9/30/1978  | 1:12  | 10/2/1978  | 12:23    | 59.18   | 1060 |
| 521 | 168 | Oak Creek #6 | 219 | D1 | 10/2/1978  | 16:30 | 10/7/1978  | 20:45    | 124.25  | 1400 |
| 521 | 168 | Oak Creek #6 |     | U1 | 10/3/1978  | 23:17 | 10/4/1978  | 11:24    | 12.11   | 1400 |
| 521 | 168 | Oak Creek #6 |     | U1 | 10/14/1978 | 0:34  | 10/16/1978 | 10:34    | 58      | 1060 |
| 521 | 168 | Oak Creek #6 | 214 | D1 | 10/18/1978 | 10:00 | 10/18/1978 | 19:20    | 9.33    | 3999 |
| 521 | 168 | Oak Creek #6 | 239 | PD | 10/26/1978 | 7:30  | 11/1/1978  | 11:00    | 147.5   | 620  |
| 521 | 168 | Oak Creek #6 | 194 | D1 | 10/26/1978 | 7:30  | 10/26/1978 | 10:20    | 2.83    | 250  |
| 521 | 168 | Oak Creek #6 | 189 | D1 | 10/26/1978 | 21:30 | 10/26/1978 | 22:30    | 1       | 3999 |
| 521 | 168 | Oak Creek #6 | 209 | D1 | 10/28/1978 | 8:30  | 10/29/1978 | 21:15    | 36.75   | 3999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 11/4/1978  | 0:03  | 11/7/1978  | 3:07     | 75.06   | 1060 |
| 521 | 168 | Oak Creek #6 | 206 | D1 | 11/8/1978  | 9:00  | 11/8/1978  | 22:30    | 13.5    | 250  |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 11/9/1978  | 13:30 | 11/11/1978 | 10:30    | 45      | 1060 |
| 521 | 168 | Oak Creek #6 |     | PO | 11/11/1978 | 10:30 | 12/26/1978 | 1:21     | 1094.85 | 1999 |
| 521 | 168 | Oak Creek #6 | 210 | D1 | 11/26/1978 | 1:00  | 11/26/1978 | 4:15     | 3.25    | 1400 |
| 521 | 168 | Oak Creek #6 | 166 | D1 | 12/26/1978 | 16:45 | 12/26/1978 | 19:30    | 2.75    | 340  |
| 521 | 168 | Oak Creek #6 | 70  | D1 | 1/5/1979   | 0:01  | 1/8/1979   | 12:45    | 84.73   | 340  |
| 521 | 168 | Oak Creek #6 | 39  | D1 | 1/5/1979   | 4:00  | 1/8/1979   | 16:00    | 84      | 3999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 1/9/1979   | 16:14 | 1/11/1979  | 17:05    | 48.85   | 1060 |
| 521 | 168 | Oak Creek #6 | 201 | D1 | 1/12/1979  | 0:01  | 1/15/1979  | 15:40    | 87.65   | 1999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 1/12/1979  | 15:26 | 1/14/1979  | 0:44     | 33.3    | 1040 |
| 521 | 168 | Oak Creek #6 | 120 | D1 | 1/15/1979  | 18:15 | 1/16/1979  | 17:00    | 22.75   | 3999 |
| 521 | 168 | Oak Creek #6 | 120 | D1 | 1/20/1979  | 5:30  | 1/20/1979  | 11:30    | 6       | 3999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 1/21/1979  | 1:04  | 1/22/1979  | 2:12     | 25.13   | 1040 |
| 521 | 168 | Oak Creek #6 |     | U1 | 1/25/1979  | 23:23 | 1/28/1979  | 19:55    | 68.53   | 1040 |
| 521 | 168 | Oak Creek #6 | 190 | D1 | 2/3/1979   | 4:00  | 2/5/1979   | 8:03     | 52.05   | 3999 |
| 521 | 168 | Oak Creek #6 | 80  | D1 | 2/20/1979  | 0:30  | 2/20/1979  | 22:30    | 22      | 3440 |
| 521 | 168 | Oak Creek #6 | 80  | D1 | 2/21/1979  | 8:40  | 2/22/1979  | 10:00    | 25.33   | 3440 |
| 521 | 168 | Oak Creek #6 | 231 | D1 | 2/22/1979  | 10:00 | 2/22/1979  | 22:44    | 12.73   | 8560 |
| 521 | 168 | Oak Creek #6 |     | U1 | 2/22/1979  | 22:44 | 2/26/1979  | 3:06     | 76.36   | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 3/2/1979   | 0:33  | 3/4/1979   | 5:28     | 52.91   | 1060 |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 3/5/1979   | 8:20  | 3/31/1979  | 24:00:00 | 639.66  | 8560 |
| 521 | 168 | Oak Creek #6 | 150 | D1 | 3/16/1979  | 3:30  | 3/17/1979  | 16:00    | 36.5    | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 3/19/1979  | 22:23 | 3/22/1979  | 6:07     | 55.73   | 1060 |
| 521 | 168 | Oak Creek #6 | 140 | D1 | 3/23/1979  | 23:30 | 3/24/1979  | 4:20     | 4.83    | 3310 |
| 521 | 168 | Oak Creek #6 |     | U1 | 3/31/1979  | 23:31 | 4/1/1979   | 5:47     | 6.26    | 4640 |
| 521 | 168 | Oak Creek #6 | 136 | D1 | 4/1/1979   | 11:00 | 4/1/1979   | 19:30    | 8.5     | 3999 |
| 521 | 168 | Oak Creek #6 | 89  | D1 | 4/1/1979   | 11:00 | 4/1/1979   | 19:30    | 8.5     | 3999 |
| 521 | 168 | Oak Creek #6 | 64  | D1 | 4/29/1979  | 19:50 | 4/30/1979  | 5:30     | 9.66    | 3999 |

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|     |     |              |     |    |            |       |            |       |         |      |
|-----|-----|--------------|-----|----|------------|-------|------------|-------|---------|------|
| 521 | 168 | Oak Creek #6 | 93  | D1 | 5/1/1979   | 17:00 | 5/1/1979   | 21:30 | 4.5     | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 5/4/1979   | 9:28  | 5/6/1979   | 23:26 | 61.96   | 1060 |
| 521 | 168 | Oak Creek #6 | 73  | D1 | 5/13/1979  | 7:10  | 5/13/1979  | 14:00 | 6.83    | 3999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 5/18/1979  | 23:07 | 6/7/1979   | 8:38  | 465.51  | 8560 |
| 521 | 168 | Oak Creek #6 | 209 | D1 | 6/13/1979  | 0:01  | 6/16/1979  | 3:30  | 75.48   | 8560 |
| 521 | 168 | Oak Creek #6 | 149 | D1 | 6/14/1979  | 3:30  | 6/23/1979  | 16:27 | 228.95  | 8560 |
| 521 | 168 | Oak Creek #6 |     | U1 | 6/14/1979  | 20:57 | 6/15/1979  | 3:35  | 6.63    | 1060 |
| 521 | 168 | Oak Creek #6 | 59  | D1 | 6/21/1979  | 5:05  | 6/21/1979  | 16:15 | 11.16   | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 6/23/1979  | 16:27 | 6/26/1979  | 4:18  | 59.85   | 8560 |
| 521 | 168 | Oak Creek #6 |     | U1 | 7/6/1979   | 19:46 | 7/8/1979   | 23:06 | 51.33   | 1060 |
| 521 | 168 | Oak Creek #6 | 186 | D1 | 7/20/1979  | 10:25 | 7/20/1979  | 22:16 | 11.85   | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 7/20/1979  | 22:16 | 7/23/1979  | 6:26  | 56.16   | 1060 |
| 521 | 168 | Oak Creek #6 | 170 | D1 | 7/29/1979  | 10:30 | 7/30/1979  | 2:13  | 15.71   | 8560 |
| 521 | 168 | Oak Creek #6 | 100 | D1 | 7/30/1979  | 2:13  | 7/31/1979  | 0:46  | 22.55   | 8560 |
| 521 | 168 | Oak Creek #6 |     | U1 | 7/31/1979  | 0:47  | 8/5/1979   | 13:29 | 132.7   | 1999 |
| 521 | 168 | Oak Creek #6 | 200 | D1 | 8/5/1979   | 13:29 | 9/1/1979   | 13:40 | 648.18  | 8560 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/22/1979  | 23:07 | 8/23/1979  | 13:23 | 14.26   | 1060 |
| 521 | 168 | Oak Creek #6 |     | MO | 9/1/1979   | 5:15  | 9/1/1979   | 6:02  | 0.78    | 4301 |
| 521 | 168 | Oak Creek #6 |     | MO | 9/1/1979   | 7:06  | 9/1/1979   | 8:29  | 1.38    | 4301 |
| 521 | 168 | Oak Creek #6 |     | PO | 9/1/1979   | 13:40 | 12/15/1979 | 3:35  | 2533.91 | 1999 |
| 521 | 168 | Oak Creek #6 | 114 | D1 | 12/15/1979 | 3:35  | 12/17/1979 | 4:00  | 48.41   | 3310 |
| 521 | 168 | Oak Creek #6 |     | PO | 12/19/1979 | 3:16  | 12/19/1979 | 3:44  | 0.46    | 9720 |
| 521 | 168 | Oak Creek #6 | 206 | D1 | 12/21/1979 | 4:00  | 12/27/1979 | 18:30 | 158.5   | 3440 |
| 521 | 168 | Oak Creek #6 | 131 | D1 | 12/27/1979 | 22:00 | 12/28/1979 | 0:45  | 2.75    | 3410 |
| 521 | 168 | Oak Creek #6 |     | MO | 12/31/1979 | 0:15  | 12/31/1979 | 6:15  | 6       | 4301 |
| 521 | 168 | Oak Creek #6 | 151 | D1 | 1/5/1980   | 19:50 | 1/6/1980   | 1:00  | 5.16    | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 1/6/1980   | 7:49  | 1/9/1980   | 14:29 | 78.66   | 1005 |
| 521 | 168 | Oak Creek #6 | 161 | D1 | 1/12/1980  | 1:45  | 1/13/1980  | 12:55 | 35.16   | 1400 |
| 521 | 168 | Oak Creek #6 | 190 | D1 | 1/17/1980  | 23:00 | 1/18/1980  | 18:50 | 19.83   | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 1/26/1980  | 0:30  | 1/28/1980  | 2:09  | 49.65   | 4269 |
| 521 | 168 | Oak Creek #6 | 225 | D1 | 1/30/1980  | 3:40  | 1/30/1980  | 14:25 | 10.75   | 3999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 2/11/1980  | 2:28  | 2/11/1980  | 3:38  | 1.16    | 4400 |
| 521 | 168 | Oak Creek #6 |     | U1 | 2/15/1980  | 0:35  | 2/19/1980  | 19:12 | 114.61  | 1060 |
| 521 | 168 | Oak Creek #6 | 160 | D1 | 2/21/1980  | 14:40 | 2/21/1980  | 21:15 | 6.58    | 3440 |
| 521 | 168 | Oak Creek #6 | 170 | D1 | 2/22/1980  | 23:30 | 2/23/1980  | 14:00 | 14.5    | 3440 |
| 521 | 168 | Oak Creek #6 | 90  | D1 | 3/7/1980   | 13:30 | 3/9/1980   | 6:00  | 40.5    | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 3/8/1980   | 2:45  | 3/8/1980   | 3:18  | 0.55    | 9900 |
| 521 | 168 | Oak Creek #6 | 70  | D1 | 3/11/1980  | 10:15 | 3/11/1980  | 13:30 | 3.25    | 3999 |
| 521 | 168 | Oak Creek #6 | 60  | D1 | 3/18/1980  | 17:50 | 3/20/1980  | 5:00  | 35.16   | 340  |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 3/20/1980  | 5:00  | 3/21/1980  | 2:20  | 21.33   | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 3/29/1980  | 0:34  | 3/31/1980  | 8:35  | 56.01   | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 4/18/1980  | 4:06  | 4/22/1980  | 6:35  | 98.48   | 1060 |
| 521 | 168 | Oak Creek #6 | 220 | D1 | 4/23/1980  | 3:15  | 4/23/1980  | 19:00 | 15.75   | 1999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 5/1/1980   | 9:34  | 5/5/1980   | 8:30  | 94.93   | 1040 |
| 521 | 168 | Oak Creek #6 |     | U1 | 5/6/1980   | 15:35 | 5/13/1980  | 19:39 | 172.06  | 1000 |
| 521 | 168 | Oak Creek #6 |     | U1 | 5/16/1980  | 17:25 | 5/19/1980  | 9:06  | 63.68   | 1000 |

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|     |     |              |     |    |            |       |            |       |        |      |
|-----|-----|--------------|-----|----|------------|-------|------------|-------|--------|------|
| 521 | 168 | Oak Creek #6 | 165 | PD | 6/13/1980  | 8:00  | 6/14/1980  | 19:15 | 35.25  | 3440 |
| 521 | 168 | Oak Creek #6 | 60  | D1 | 6/17/1980  | 21:45 | 6/18/1980  | 4:15  | 6.5    | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 6/24/1980  | 12:49 | 6/26/1980  | 7:40  | 42.85  | 1060 |
| 521 | 168 | Oak Creek #6 | 146 | D1 | 7/1/1980   | 16:10 | 7/2/1980   | 1:45  | 9.58   | 3440 |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 7/12/1980  | 0:30  | 7/12/1980  | 8:35  | 8.08   | 3440 |
| 521 | 168 | Oak Creek #6 | 200 | D1 | 7/14/1980  | 2:45  | 7/14/1980  | 11:50 | 9.08   | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 7/19/1980  | 0:01  | 7/19/1980  | 6:34  | 6.55   | 1400 |
| 521 | 168 | Oak Creek #6 | 131 | D1 | 7/19/1980  | 6:34  | 7/19/1980  | 13:15 | 6.68   | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 7/19/1980  | 13:15 | 7/19/1980  | 16:35 | 3.33   | 3440 |
| 521 | 168 | Oak Creek #6 | 170 | D1 | 7/19/1980  | 16:35 | 7/20/1980  | 15:50 | 23.25  | 3440 |
| 521 | 168 | Oak Creek #6 | 210 | D1 | 7/30/1980  | 9:00  | 7/30/1980  | 13:55 | 4.91   | 3999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/7/1980   | 22:51 | 8/8/1980   | 6:04  | 7.21   | 1400 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/9/1980   | 18:59 | 8/15/1980  | 6:28  | 131.48 | 1040 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/15/1980  | 22:39 | 8/17/1980  | 22:15 | 47.6   | 1060 |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 8/24/1980  | 2:45  | 8/25/1980  | 14:26 | 35.68  | 3440 |
| 521 | 168 | Oak Creek #6 | 225 | D1 | 8/27/1980  | 2:20  | 8/27/1980  | 16:15 | 13.91  | 3999 |
| 521 | 168 | Oak Creek #6 | 90  | D1 | 9/5/1980   | 10:00 | 9/6/1980   | 2:45  | 16.75  | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 9/13/1980  | 3:07  | 9/15/1980  | 4:11  | 49.06  | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 9/20/1980  | 0:48  | 9/22/1980  | 4:36  | 51.8   | 1060 |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 10/1/1980  | 19:00 | 10/2/1980  | 7:30  | 12.5   | 3440 |
| 521 | 168 | Oak Creek #6 | 149 | PD | 10/4/1980  | 17:50 | 10/18/1980 | 5:15  | 323.41 | 620  |
| 521 | 168 | Oak Creek #6 | 69  | D1 | 10/4/1980  | 18:00 | 10/5/1980  | 15:45 | 21.75  | 620  |
| 521 | 168 | Oak Creek #6 | 69  | D1 | 10/8/1980  | 14:30 | 10/9/1980  | 1:30  | 11     | 340  |
| 521 | 168 | Oak Creek #6 | 69  | D1 | 10/10/1980 | 13:45 | 10/10/1980 | 16:15 | 2.5    | 340  |
| 521 | 168 | Oak Creek #6 | 69  | D1 | 10/11/1980 | 4:30  | 10/11/1980 | 12:30 | 8      | 340  |
| 521 | 168 | Oak Creek #6 | 69  | D1 | 10/12/1980 | 10:35 | 10/12/1980 | 13:15 | 2.66   | 340  |
| 521 | 168 | Oak Creek #6 | 50  | D1 | 10/14/1980 | 10:00 | 10/14/1980 | 16:25 | 6.41   | 340  |
| 521 | 168 | Oak Creek #6 | 50  | D1 | 10/15/1980 | 1:00  | 10/18/1980 | 5:15  | 76.25  | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 10/17/1980 | 23:24 | 10/17/1980 | 23:59 | 0.58   | 9999 |
| 521 | 168 | Oak Creek #6 |     | PO | 10/18/1980 | 5:14  | 11/16/1980 | 23:29 | 714.25 | 1999 |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 11/16/1980 | 23:30 | 11/23/1980 | 10:25 | 154.91 | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 11/23/1980 | 10:25 | 11/24/1980 | 21:27 | 35.03  | 3440 |
| 521 | 168 | Oak Creek #6 | 165 | D1 | 11/24/1980 | 21:27 | 12/3/1980  | 11:00 | 229.55 | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 12/5/1980  | 22:22 | 12/8/1980  | 1:07  | 50.75  | 1060 |
| 521 | 168 | Oak Creek #6 | 188 | D1 | 12/9/1980  | 8:00  | 12/9/1980  | 10:00 | 2      | 1850 |
| 521 | 168 | Oak Creek #6 | 235 | D1 | 12/9/1980  | 10:00 | 12/9/1980  | 12:30 | 2.5    | 1850 |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 12/10/1980 | 16:30 | 12/11/1980 | 22:20 | 29.83  | 3440 |
| 521 | 168 | Oak Creek #6 | 175 | PD | 12/17/1980 | 21:30 | 12/18/1980 | 8:00  | 10.5   | 1999 |
| 521 | 168 | Oak Creek #6 | 185 | D1 | 12/23/1980 | 11:00 | 12/24/1980 | 4:30  | 17.5   | 3440 |
| 521 | 168 | Oak Creek #6 | 140 | D1 | 12/29/1980 | 19:30 | 12/31/1980 | 3:00  | 31.5   | 5890 |
| 521 | 168 | Oak Creek #6 | 70  | D1 | 12/31/1980 | 3:00  | 12/31/1980 | 17:15 | 14.25  | 340  |
| 521 | 168 | Oak Creek #6 | 226 | D1 | 1/1/1981   | 0:01  | 1/16/1981  | 23:38 | 383.61 | 3440 |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 1/1/1981   | 17:20 | 1/2/1981   | 8:19  | 14.98  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 1/2/1981   | 8:19  | 1/2/1981   | 13:06 | 4.78   | 3440 |
| 521 | 168 | Oak Creek #6 | 150 | D1 | 1/2/1981   | 13:06 | 1/2/1981   | 23:30 | 10.4   | 3440 |
| 521 | 168 | Oak Creek #6 | 150 | D1 | 1/3/1981   | 15:02 | 1/3/1981   | 19:00 | 3.96   | 1999 |

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|     |     |              |     |    |           |       |           |       |        |      |
|-----|-----|--------------|-----|----|-----------|-------|-----------|-------|--------|------|
| 521 | 168 | Oak Creek #6 | 150 | D1 | 1/9/1981  | 23:00 | 1/10/1981 | 21:00 | 22     | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 1/16/1981 | 23:38 | 1/19/1981 | 6:05  | 54.45  | 8560 |
| 521 | 168 | Oak Creek #6 | 226 | D1 | 1/19/1981 | 6:05  | 2/21/1981 | 23:50 | 809.75 | 3440 |
| 521 | 168 | Oak Creek #6 | 150 | PD | 1/23/1981 | 21:30 | 1/24/1981 | 5:00  | 7.5    | 3440 |
| 521 | 168 | Oak Creek #6 | 198 | D1 | 2/6/1981  | 8:30  | 2/6/1981  | 23:59 | 15.48  | 8580 |
| 521 | 168 | Oak Creek #6 |     | U1 | 2/6/1981  | 23:59 | 2/10/1981 | 11:38 | 83.65  | 1060 |
| 521 | 168 | Oak Creek #6 |     | MO | 2/20/1981 | 23:50 | 2/22/1981 | 17:15 | 41.41  | 3110 |
| 521 | 168 | Oak Creek #6 |     | U1 | 2/22/1981 | 17:15 | 2/23/1981 | 19:49 | 26.56  | 4500 |
| 521 | 168 | Oak Creek #6 |     | U1 | 2/24/1981 | 6:00  | 3/2/1981  | 3:52  | 141.86 | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 3/3/1981  | 23:12 | 3/5/1981  | 8:44  | 33.53  | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 3/6/1981  | 22:22 | 3/7/1981  | 6:35  | 8.21   | 1060 |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 3/8/1981  | 21:03 | 3/9/1981  | 8:30  | 11.45  | 3440 |
| 521 | 168 | Oak Creek #6 | 95  | D1 | 3/28/1981 | 23:00 | 4/1/1981  | 5:00  | 78     | 340  |
| 521 | 168 | Oak Creek #6 | 95  | D1 | 4/1/1981  | 9:00  | 4/1/1981  | 17:45 | 8.75   | 620  |
| 521 | 168 | Oak Creek #6 |     | U1 | 4/2/1981  | 12:17 | 4/16/1981 | 22:09 | 345.86 | 1060 |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 4/21/1981 | 20:45 | 4/22/1981 | 15:30 | 18.75  | 3440 |
| 521 | 168 | Oak Creek #6 | 150 | D1 | 4/23/1981 | 2:30  | 4/23/1981 | 23:50 | 21.33  | 9130 |
| 521 | 168 | Oak Creek #6 | 175 | D1 | 4/24/1981 | 7:30  | 4/24/1981 | 23:59 | 16.48  | 340  |
| 521 | 168 | Oak Creek #6 |     | U1 | 5/2/1981  | 23:35 | 5/3/1981  | 10:02 | 10.45  | 8560 |
| 521 | 168 | Oak Creek #6 | 225 | D1 | 5/3/1981  | 10:02 | 5/9/1981  | 1:59  | 135.95 | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 5/9/1981  | 1:59  | 5/11/1981 | 7:05  | 53.1   | 1060 |
| 521 | 168 | Oak Creek #6 |     | U1 | 5/19/1981 | 19:40 | 5/21/1981 | 23:14 | 51.56  | 9720 |
| 521 | 168 | Oak Creek #6 | 225 | D1 | 5/21/1981 | 23:14 | 5/24/1981 | 0:02  | 48.8   | 3440 |
| 521 | 168 | Oak Creek #6 |     | MO | 5/24/1981 | 0:02  | 6/6/1981  | 21:27 | 333.41 | 840  |
| 521 | 168 | Oak Creek #6 | 170 | PD | 6/6/1981  | 21:27 | 6/11/1981 | 23:48 | 122.35 | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 6/9/1981  | 9:34  | 6/10/1981 | 8:05  | 22.51  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 6/11/1981 | 23:48 | 6/12/1981 | 8:38  | 8.83   | 8560 |
| 521 | 168 | Oak Creek #6 | 150 | PD | 6/12/1981 | 8:38  | 6/14/1981 | 2:00  | 41.36  | 3440 |
| 521 | 168 | Oak Creek #6 | 165 | PD | 6/14/1981 | 2:00  | 6/16/1981 | 2:00  | 48     | 3440 |
| 521 | 168 | Oak Creek #6 | 100 | D1 | 6/17/1981 | 4:00  | 6/17/1981 | 15:00 | 11     | 8560 |
| 521 | 168 | Oak Creek #6 | 165 | PD | 6/18/1981 | 12:00 | 6/26/1981 | 19:40 | 199.66 | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 6/27/1981 | 0:27  | 6/29/1981 | 6:21  | 53.9   | 1040 |
| 521 | 168 | Oak Creek #6 |     | NC | 6/30/1981 | 1:00  | 6/30/1981 | 11:45 | 10.75  | 1040 |
| 521 | 168 | Oak Creek #6 | 170 | D1 | 7/6/1981  | 21:30 | 7/7/1981  | 7:15  | 9.75   | 3440 |
| 521 | 168 | Oak Creek #6 | 190 | D1 | 7/13/1981 | 9:00  | 7/19/1981 | 10:30 | 145.5  | 9650 |
| 521 | 168 | Oak Creek #6 | 191 | D1 | 7/19/1981 | 10:30 | 7/20/1981 | 15:15 | 28.75  | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 7/28/1981 | 23:33 | 8/2/1981  | 0:36  | 97.05  | 1060 |
| 521 | 168 | Oak Creek #6 | 170 | D1 | 8/2/1981  | 0:36  | 8/3/1981  | 7:30  | 30.9   | 3440 |
| 521 | 168 | Oak Creek #6 | 170 | D1 | 8/3/1981  | 7:30  | 8/4/1981  | 2:00  | 18.5   | 3440 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/17/1981 | 22:08 | 8/21/1981 | 11:46 | 85.63  | 1040 |
| 521 | 168 | Oak Creek #6 |     | U1 | 8/27/1981 | 9:35  | 8/27/1981 | 19:33 | 9.96   | 1060 |
| 521 | 168 | Oak Creek #6 |     | MO | 9/5/1981  | 0:45  | 9/8/1981  | 5:31  | 76.76  | 3621 |
| 521 | 168 | Oak Creek #6 | 180 | D1 | 9/9/1981  | 6:30  | 9/10/1981 | 6:00  | 23.5   | 1850 |
| 521 | 168 | Oak Creek #6 | 180 | D1 | 9/21/1981 | 5:40  | 9/21/1981 | 21:00 | 15.33  | 3999 |
| 521 | 168 | Oak Creek #6 |     | U1 | 9/25/1981 | 21:51 | 9/29/1981 | 22:15 | 96.4   | 1040 |
| 521 | 168 | Oak Creek #6 | 87  | D1 | 9/29/1981 | 22:15 | 10/3/1981 | 15:25 | 89.16  | 1850 |

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|     |     |              |      |     |    |            |       |            |          |         |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|---------|------|--|
| 521 | 168 | Oak Creek #6 | 175  |     | D1 | 10/3/1981  | 15:25 | 10/3/1981  | 17:30    | 2.08    | 3440 |  |
| 521 | 168 | Oak Creek #6 | 90   |     | D1 | 10/3/1981  | 17:30 | 10/4/1981  | 9:00     | 15.5    | 3440 |  |
| 521 | 168 | Oak Creek #6 | 175  |     | D1 | 10/4/1981  | 9:00  | 10/5/1981  | 1:00     | 16      | 3440 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 10/5/1981  | 10:49 | 10/11/1981 | 10:33    | 143.73  | 1040 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 10/11/1981 | 10:40 | 10/17/1981 | 18:33    | 151.88  | 4520 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 10/23/1981 | 14:18 | 10/26/1981 | 5:44     | 63.43   | 1040 |  |
| 521 | 168 | Oak Creek #6 |      |     | PO | 11/6/1981  | 22:05 | 11/6/1981  | 23:07    | 1.03    | 9999 |  |
| 521 | 168 | Oak Creek #6 |      |     | PO | 11/7/1981  | 4:44  | 12/20/1981 | 21:06    | 1072.36 | 1999 |  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 12/21/1981 | 3:00  | 12/24/1981 | 12:58    | 81.96   | 1040 |  |
| 521 | 168 | Oak Creek #6 | 221  |     | D1 | 12/28/1981 | 17:00 | 12/28/1981 | 21:50    | 4.83    | 3999 |  |
| 521 | 168 | Oak Creek #6 | 120  |     | D1 | 12/28/1981 | 21:45 | 12/30/1981 | 9:00     | 35.25   | 1040 |  |
| 521 | 168 | Oak Creek #6 | 170  |     | D1 | 12/30/1981 | 9:00  | 12/31/1981 | 24:00:00 | 39      | 1040 |  |
| 521 | 168 | Oak Creek #6 | 000* | 75  | D1 | 1/1/1982   | 0:01  | 1/9/1982   | 6:00     | 197.98  | 1799 | SUPERHEATER, HIGH TEMPERATURE  |
| 521 | 168 | Oak Creek #6 | 000* | 66  | D1 | 1/2/1982   | 12:30 | 1/3/1982   | 10:00    | 21.5    | 4261 | TURBINE CONTROL, PROBLEM VALVES  |
| 521 | 168 | Oak Creek #6 | 000* | 110 | D1 | 1/3/1982   | 10:00 | 1/9/1982   | 6:00     | 140     | 250  | 63 MILL, REPLACE TORN BELT   |
| 521 | 168 | Oak Creek #6 | 000* | 111 | D1 | 1/5/1982   | 7:00  | 1/6/1982   | 15:40    | 32.66   | 3416 | TURBINE BFP REPAIR   |
| 521 | 168 | Oak Creek #6 |      |     | U3 | 1/9/1982   | 5:57  | 1/9/1982   | 21:30    | 15.55   | 4261 | TURBINE CONTROL VALVE CAM<br>REPLACEMENT   |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D2 | 1/11/1982  | 3:00  | 1/15/1982  | 7:00     | 100     | 1850 | BOILER, SILICA HIGH  |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 1/15/1982  | 7:00  | 1/27/1982  | 12:30    | 293.5   | 4301 | TURBINE, CONTROLS SWINGING<br>BADLY ABOVE 200MW-NEED OUTAGE<br>FOR READJUSTMENT    |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 1/19/1982  | 15:40 | 1/19/1982  | 22:00    | 6.33    | 340  | MILLS, WET AND FROZEN COAL<br>PREVENTING MILL CAPACITY                             |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 1/21/1982  | 10:40 | 1/26/1982  | 13:34    | 122.9   | 8560 | WATER ENTERED PRECIPITATOR<br>CAUSING ASH REMOVAL PROBLEMS                         |
| 521 | 168 | Oak Creek #6 | 000* | 143 | D1 | 1/27/1982  | 12:30 | 1/28/1982  | 15:30    | 27      | 260  | 61/62 PRIMARY FAN, MTR BRGS HIGH<br>TEMP-PULLED COOLERS TO CLEAN                   |
| 521 | 168 | Oak Creek #6 | 000* | 100 | D1 | 1/27/1982  | 21:40 | 1/28/1982  | 17:16    | 19.6    | 8650 | PRECIPITATOR, CHANGING TERTIARY<br>COLLECTOR BAGS FOULED WITH<br>MOISTURE          |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 1/28/1982  | 17:15 | 1/29/1982  | 20:15    | 27      | 1850 | REPLACE BOILER WATER BECAUSE OF<br>HIGH SILICA                                     |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 1/31/1982  | 1:21  | 2/1/1982   | 7:20     | 29.98   | 1060 | REPAIR REHEATER LEAK IN 1 CELL   |
| 521 | 168 | Oak Creek #6 | 000* | 160 | D1 | 2/3/1982   | 7:00  | 2/3/1982   | 9:00     | 2       | 1850 | HIGH SILICA IN BOILER WATER-<br>OPENED LARGE BLOWDOWN                              |
| 521 | 168 | Oak Creek #6 | 000* | 185 | D1 | 2/3/1982   | 9:00  | 2/4/1982   | 3:00     | 18      | 260  | #61 PRIMARY FAN, FAN BEARING<br>FAILURE BEARINGS BEING SCRAPPED<br>AND REINSTALLED |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 2/4/1982   | 3:00  | 2/5/1982   | 9:00     | 30      | 260  | #61 PRIMARY AIR FAN, FAN BRNG<br>FAILURE BRNGS BEING SCRAPPED<br>AND REINSTALLED   |
| 521 | 168 | Oak Creek #6 | 000* | 132 | D1 | 2/5/1982   | 17:30 | 2/5/1982   | 19:30    | 2       | 265  | #62 AIR PREHEATER MOTOR DRIVE<br>COIL FAILURE REPLACE COIL                         |

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|     |     |              |      |     |    |           |       |           |       |        |      |   |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|---|
| 521 | 168 | Oak Creek #6 |      |     | U1 | 2/7/1982  | 19:22 | 2/11/1982 | 22:06 | 98.73  | 1020 | CONVECTION SUPERHEATER, TUBE RUPTURE #1 AND #4 CELLS-REPAIR LEAKS               |
| 521 | 168 | Oak Creek #6 |      |     | U2 | 2/13/1982 | 1:46  | 2/14/1982 | 23:33 | 45.78  | 240  | CLEAN FIRE COAL OUT OF 61 & 62 PULV FUEL BINS                                   |
| 521 | 168 | Oak Creek #6 | 000* | 165 | D1 | 2/20/1982 | 16:45 | 2/21/1982 | 15:15 | 22.5   | 360  | 1 & 7 PULV FUEL FEEDER, PLUGGED FEEDERS CAUSING REHEAT TEMP PROBLEMS            |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D2 | 3/1/1982  | 16:15 | 3/1/1982  | 17:30 | 1.25   | 340  | TRANSFERING PULVERIZED COAL TO UNIT 5   |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 3/4/1982  | 13:47 | 3/8/1982  | 5:41  | 87.9   | 360  | REPAIR PULVERIZED FUEL LEAK AT BURNERS.   |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 3/9/1982  | 21:55 | 3/10/1982 | 6:34  | 8.64   | 1060 | REHEAT LEAK NORTH SIDE ELEV 45 REPAIR FROM OUTSIDE                              |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 3/20/1982 | 22:44 | 3/21/1982 | 6:13  | 7.48   | 1070 | REPAIR REHEATER LEAK  |
| 521 | 168 | Oak Creek #6 |      |     | U2 | 3/27/1982 | 21:42 | 3/28/1982 | 20:40 | 22.96  | 1130 | REMOVE SLAG FROM FURNACE BOTTOM   |
| 521 | 168 | Oak Creek #6 |      |     | PO | 4/4/1982  | 1:29  | 4/4/1982  | 9:24  | 7.91   | 8560 | PRECIP GROUNDS  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 4/4/1982  | 20:52 | 4/7/1982  | 15:15 | 66.38  | 1160 | REHEAT TUBE LEAK  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 4/11/1982 | 2:08  | 4/15/1982 | 14:00 | 107.86 | 1030 | BOILER, REPAIR WATER TUBE LEAK  |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 4/19/1982 | 2:00  | 4/21/1982 | 5:00  | 51     | 8550 | ELECTROSTATIC PRECIPITATOR FOULING  |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 4/22/1982 | 2:00  | 5/3/1982  | 1:00  | 263    | 250  | PULVERIZED COAL FEEDER PROBLEMS CAUSING HIGH OPACITY IN STACK.                  |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 5/3/1982  | 1:00  | 5/3/1982  | 12:00 | 11     | 250  | PULVERIZED COAL FEEDER PROBLEMS CAUSING HIGH OPACITY IN STACK                   |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 5/3/1982  | 12:00 | 5/23/1982 | 3:32  | 471.53 | 8560 | PRECIPITATOR, TWO FIELDS OUT AND POOR PERFORMANCE ON OTHER RECTIFIERS           |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 5/5/1982  | 7:00  | 5/5/1982  | 14:15 | 7.25   | 250  | PULVERIZER COAL FEEDERS, CONTROL OF COAL FLOW IMPAIRED-SET CLEARANCE            |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 5/14/1982 | 22:24 | 5/15/1982 | 12:09 | 13.75  | 250  | REPAIR DAMAGE FROM 62 PULVERIZED FEEDER FIRE                                    |
| 521 | 168 | Oak Creek #6 | 000* | 175 | D1 | 5/17/1982 | 9:00  | 5/23/1982 | 3:32  | 138.53 | 250  | #62 PULVERIZED COAL FEEDER BEING REPLACED                                       |
| 521 | 168 | Oak Creek #6 | 000* | 80  | D2 | 5/18/1982 | 23:00 | 5/19/1982 | 4:30  | 5.5    | 260  | 61 PRIMARY AIR FAN, REPAIR COOLING PROBLEMS ON INBOARD MTR BRNG                 |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 5/20/1982 | 19:42 | 5/23/1982 | 3:32  | 55.83  | 1060 | BOILER AND PRECIPS, REHEAT LEAK ONE AND FOUR CELLS ALSO INSP PRECIP FOR GROUNDS |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 5/25/1982 | 22:24 | 5/26/1982 | 6:20  | 7.93   | 8560 | PRECIPITATOR, REMOVE BROKEN WIRE  |

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|     |     |              |      |     |    |            |       |            |       |        |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|--|
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 6/1/1982   | 2:15  | 7/15/1982  | 13:45 | 1067.5 | 8560 | FIELD 1-2D B FIELD OUT OTHER FIELDS<br>LOW CURRENT                                 |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 6/10/1982  | 23:24 | 6/17/1982  | 7:49  | 152.41 | 1060 | BOILER, REPAIR REHEAT LEAKS<br>OVER HEATED MOTOR BEARING ON<br>#62 PRIMARY AIR FAN |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 6/18/1982  | 8:00  | 6/24/1982  | 6:20  | 142.33 | 260  | BOILER, INTERMEDIATE SUPERHEAT<br>TUBE ON NUMBER ONE DIVISION WALL                 |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 6/20/1982  | 20:50 | 6/24/1982  | 6:20  | 81.5   | 1040 | 62 I.D. FAN MOTOR FAILURE  |
| 521 | 168 | Oak Creek #6 | 000* | 110 | D1 | 6/24/1982  | 6:20  | 7/1/1982   | 4:30  | 166.16 | 1470 | 62 I.D. FAN MOTOR FAILURE  |
| 521 | 168 | Oak Creek #6 | 000* | 110 | D1 | 6/24/1982  | 6:20  | 7/1/1982   | 4:30  | 166.16 | 1470 | HIGH MOTOR BEARING TEMPS ON 61 &<br>62 PRIMARY AIR FANS                            |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 7/1/1982   | 4:30  | 7/13/1982  | 2:00  | 285.5  | 1599 | 61 PRIMARY AIR FAN, REPLACE<br>OUTBOARD MOTOR BEARING                              |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 7/7/1982   | 18:00 | 7/8/1982   | 8:00  | 14     | 1599 | 61 PRIMARY AIR FAN, REPAIR<br>OUTBOARD MOTOR BEARING                               |
| 521 | 168 | Oak Creek #6 | 000* | 200 | PD | 7/10/1982  | 5:00  | 7/13/1982  | 2:00  | 69     | 260  | LOW CURRENT AND POWER USAGE<br>ON PRECIPS CAUSING OPACITY<br>PROBLEMS              |
| 521 | 168 | Oak Creek #6 | 000* | 197 | D1 | 7/15/1982  | 13:45 | 7/20/1982  | 14:00 | 120.25 | 8560 | PRECIP FIELDS, CLEAN BUSHINGS ON<br>ALL WEAK FIELDS                                |
| 521 | 168 | Oak Creek #6 | 000* | 90  | PD | 7/17/1982  | 7:30  | 7/17/1982  | 13:45 | 6.25   | 8560 | PRECIPITATOR FIELDS, LOW CURRENT<br>CAUSES VOLTAGE DROP AND OPACITY<br>PROBLEMS    |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 7/20/1982  | 14:00 | 7/24/1982  | 6:00  | 88     | 8560 | REHEAT TUBE RUPTURED   |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 7/24/1982  | 7:00  | 7/25/1982  | 0:48  | 17.79  | 540  | REPAIR REHEAT TUBE LEAK NORTH<br>EAST CORNER ELEV 67                               |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 7/25/1982  | 0:48  | 7/28/1982  | 9:14  | 80.43  | 540  | Reserve Shutdown   |
| 521 | 168 | Oak Creek #6 |      |     | RS | 8/20/1982  | 0:04  | 8/24/1982  | 5:00  | 100.93 | 0    | PRECIPITATOR UNDER VOLTAGE   |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 9/6/1982   | 1:42  | 10/2/1982  | 0:26  | 622.73 | 8560 | PRECIPITATOR UNDER VOLTAGE   |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 9/6/1982   | 1:42  | 10/2/1982  | 0:26  | 622.73 | 8560 | BOILER, REPAIR REHEAT LEAK<br>GENERATOR, TEST TURBINE OVER<br>SPEED TRIPS          |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 9/15/1982  | 2:42  | 9/20/1982  | 14:02 | 131.33 | 1060 | BOILER, ANNUAL OUTAGE  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 10/1/1982  | 18:48 | 10/1/1982  | 19:39 | 0.85   | 4460 | REHEAT LEAK NORTH WALL<br>SUPERHEAT LEAK #1 DIV WALL                               |
| 521 | 168 | Oak Creek #6 |      |     | PO | 10/2/1982  | 0:26  | 11/25/1982 | 6:26  | 1302   | 1800 | BOILER, SUPERHEAT TUBE LEAK #1<br>DIVISION WALL-TOOK UNIT OUT FOR<br>REPAIRS       |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 11/25/1982 | 15:16 | 11/26/1982 | 20:30 | 29.23  | 1060 | HIGH SILICA  |
| 521 | 168 | Oak Creek #6 |      |     | U2 | 11/28/1982 | 16:21 | 11/30/1982 | 4:35  | 36.23  | 1040 | HIGH SILICA  |
| 521 | 168 | Oak Creek #6 | 000* | 175 | D1 | 12/1/1982  | 15:05 | 12/2/1982  | 1:00  | 9.91   | 1850 | HIGH SILICA  |
| 521 | 168 | Oak Creek #6 | 000* | 175 | D1 | 12/1/1982  | 15:05 | 12/2/1982  | 1:00  | 9.91   | 1850 | HIGH SILICA  |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 12/2/1982  | 1:00  | 12/3/1982  | 8:00  | 31     | 1850 | PRECIP FIELDS OUT CAUSING STACK<br>EMMISSION PROBLEM.                              |
| 521 | 168 | Oak Creek #6 | 000* | 95  | D1 | 12/3/1982  | 8:00  | 12/3/1982  | 23:53 | 15.88  | 8560 | PRECIP FIELDS OUT, CLEAR<br>GROUNDS.   |
| 521 | 168 | Oak Creek #6 |      |     | U2 | 12/3/1982  | 23:53 | 12/4/1982  | 18:06 | 18.21  | 8560 |  |

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|     |     |              |      |     |    |            |       |            |       |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---|
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 12/7/1982  | 1:45  | 12/8/1982  | 1:45  | 24     | 1450 | BOIL AIR SUPPLY, HIGH SUPHT TEMPS<br>DUE TO CLEAN BOILER TUBES.         |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 12/17/1982 | 22:54 | 12/18/1982 | 19:32 | 20.63  | 4613 | H2 LEAKS ON HI-LO SPEED<br>GENERATOR.                                   |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 12/24/1982 | 2:29  | 12/24/1982 | 21:15 | 18.76  | 4619 | REPAIR H2 LEAKAGE ON HIGH AND<br>LOW SPEED GENERATORS                   |
| 521 | 168 | Oak Creek #6 |      |     | U2 | 12/31/1982 | 0:41  | 12/31/1982 | 8:24  | 7.71   | 8560 | CLEAR PRECIP GROUNDS.   |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 1/8/1983   | 2:50  | 1/8/1983   | 12:00 | 9.16   | 250  | 68 PULV FDR DRIVE SPROCKET<br>REPLACEMENT                               |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 1/11/1983  | 22:30 | 1/12/1983  | 18:30 | 20     | 410  | 62 PULVERIZER FEEDER MOTOR<br>REPLACEMENT                               |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 1/15/1983  | 1:45  | 1/15/1983  | 7:30  | 5.75   | 8560 | 56 A FIELD OUT ON PRECIPITATORS<br>BECAUSE OF WIRE GROUND               |
| 521 | 168 | Oak Creek #6 | 000* | 245 | D1 | 1/21/1983  | 11:30 | 1/23/1983  | 0:45  | 37.25  | 8550 | STACK EMISSIONS DUE TO LOW<br>PRECIPITATOR VOLTAGE                      |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 1/26/1983  | 4:30  | 1/27/1983  | 13:30 | 33     | 250  | REPLACE WORN SPROCKET ON 62<br>PULVERIZED COAL FEEDER                   |
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 1/28/1983  | 14:20 | 1/29/1983  | 5:30  | 15.16  | 8550 | LOW PRECIPITATOR VOLTAGE<br>CAUSING STACK OPACITY                       |
| 521 | 168 | Oak Creek #6 | 000* | 185 | D1 | 2/2/1983   | 2:20  | 2/2/1983   | 9:00  | 6.66   | 1400 | REPAIR #2 FORCED DRAFT FAN<br>BEARING                                   |
| 521 | 168 | Oak Creek #6 | 000* | 100 | D1 | 2/17/1983  | 8:15  | 2/17/1983  | 12:14 | 3.98   | 8430 | PRECIPITATOR FAILURE-USED<br>RAPPING PROCEDURE TO CLEAN<br>PLATES       |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 2/17/1983  | 12:14 | 2/18/1983  | 4:24  | 16.16  | 8430 | GROUNDS IN PRECIPITATOR-CLEARED<br>GROUNDS                              |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 2/22/1983  | 1:30  | 2/24/1983  | 18:30 | 65     | 250  | REPLACE 63 PULVERIZED COAL<br>FEEDER                                    |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 2/26/1983  | 22:20 | 2/27/1983  | 1:30  | 3.16   | 250  | 63 PULVERIZED COAL FEEDER<br>PROBLEM                                    |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 2/26/1983  | 19:00 | 2/26/1983  | 22:20 | 3.33   | 880  | A FLYASH TERTIARY COLLECTOR<br>PAGES BEING REPLACED                     |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 2/26/1983  | 1:00  | 2/26/1983  | 19:00 | 18     | 250  | 63 PULVERIZED COAL FEEDER<br>PROBLEM                                    |
| 521 | 168 | Oak Creek #6 | 000* | 80  | D1 | 2/27/1983  | 1:30  | 2/27/1983  | 6:00  | 4.5    | 880  | A FLYASH SYSTEM TERTIARY<br>COLLECTOR PROBLEM                           |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 2/27/1983  | 6:00  | 3/4/1983   | 0:01  | 114.01 | 250  | 63 PULVERIZED COAL FEEDER<br>PROBLEM                                    |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 3/5/1983   | 17:50 | 3/12/1983  | 0:08  | 150.3  | 250  | 63 PULVERIZED FEEDER PROBLEM  |
| 521 | 168 | Oak Creek #6 |      |     | U3 | 3/12/1983  | 0:08  | 3/18/1983  | 20:15 | 164.11 | 1040 | REHEAT AND SUPERHEAT LEAKS  |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 3/21/1983  | 1:00  | 3/21/1983  | 8:00  | 7      | 530  | BOILER SLAG CONDITION CAUSING<br>EXCESSIVELY HIGH BOILER STEAM<br>TEMPS |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 4/5/1983   | 22:00 | 4/6/1983   | 8:10  | 10.16  | 680  | REPAIR 7B HEATER SIGHT GLASS<br>LEVEL VALVE LEAK                        |

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|     |     |              |      |     |    |           |       |           |       |        |      |  |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|--|
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 4/7/1983  | 14:00 | 4/7/1983  | 15:30 | 1.5    | 8550 | MILL VENTAGE FOULED PRECIP PLATES. DROPPED LOAD AND RAPPED PLATES          |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D3 | 4/9/1983  | 22:45 | 4/10/1983 | 5:05  | 6.33   | 3522 | REPAIR 7B HTR GAUGE GLASS STEAM SIDE                                       |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D2 | 4/11/1983 | 1:00  | 4/11/1983 | 3:55  | 2.91   | 3440 | REPAIR 7A HEATER GAUGE GLASS   |
| 521 | 168 | Oak Creek #6 |      |     | U2 | 4/20/1983 | 22:51 | 4/25/1983 | 3:55  | 101.06 | 1070 | REPAIR BOILER REHEAT LEAK AND SUPERHEAT LEAK                               |
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 5/5/1983  | 8:15  | 5/11/1983 | 0:01  | 135.76 | 8560 | STACK EMISSIONS-PRECIPITATOR PROBLEMS                                      |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D3 | 5/14/1983 | 0:30  | 5/15/1983 | 2:00  | 25.5   | 3441 | REPAIR HEAD LEAK 5B FEEDWATER HEATER                                       |
| 521 | 168 | Oak Creek #6 | 000* | 175 | D1 | 5/15/1983 | 2:00  | 5/15/1983 | 16:00 | 14     | 3440 | INTERNAL LEAKAGE IN 6B FEEDWATER HEATER-CHECKED OUT OK                     |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 5/20/1983 | 7:00  | 5/21/1983 | 5:00  | 22     | 9630 | HIGH STACK OPACITY   |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 5/23/1983 | 12:20 | 5/24/1983 | 1:00  | 12.66  | 8560 | ELECTROSTATIC PRECIPITATOR PROBLEMS  |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 5/24/1983 | 1:00  | 5/24/1983 | 7:00  | 6      | 8550 | ELECTROSTATIC PRECIPITATOR FOULING   |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 5/27/1983 | 23:30 | 5/28/1983 | 3:00  | 3.5    | 3499 | B FEEDWATER HEATERS 7B EXTEM. HIGH LEVEL ALARM AND 6B HEAD DRAIN LEAK      |
| 521 | 168 | Oak Creek #6 | 000* | 200 | PD | 5/30/1983 | 1:00  | 5/30/1983 | 19:00 | 18     | 3431 | REPAIR HEAD DRAIN VALVE ON 6B, REPAIR JO-BEL VALVE ON 7B FEEDWATER HEATERS |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 6/1/1983  | 1:30  | 6/2/1983  | 8:30  | 31     | 8560 | ELECTROSTATIC PRECIPITATOR PROBLEMS  |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 6/3/1983  | 2:00  | 6/6/1983  | 19:00 | 89     | 8560 | PRECIPITATOR PROBLEMS  |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D3 | 6/17/1983 | 22:00 | 6/18/1983 | 3:05  | 5.08   | 1400 | 62 FD FAN BEARING LEAK REPAIRS   |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 6/29/1983 | 9:15  | 6/30/1983 | 2:00  | 16.75  | 8550 | PRECIPITATOR EFFICIENCY LOW-CAUSING STACK EMISSIONS                        |
| 521 | 168 | Oak Creek #6 | 000* | 175 | D1 | 7/3/1983  | 2:35  | 7/3/1983  | 5:20  | 2.75   | 3503 | 65A HP FW HTR SHELL DRN LEAK - WELD CRACKED                                |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 7/18/1983 | 14:00 | 7/26/1983 | 10:10 | 188.16 | 8560 | PRECIPITATOR PERFORMANCE CAUSING OPACITY                                   |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 7/26/1983 | 10:10 | 7/27/1983 | 1:30  | 15.33  | 8560 | EXCESSIVE STACK EMISSIONS CAUSED BY PRECIPITATOR PROBLEMS                  |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 7/27/1983 | 1:30  | 7/28/1983 | 9:15  | 31.75  | 8560 | PRECIPITATOR PERFORMANCE CAUSING OPACITY                                   |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 7/28/1983 | 9:15  | 7/28/1983 | 17:00 | 7.75   | 310  | 63 MILL PULVERIZER PLUGGED   |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 7/30/1983 | 0:01  | 8/11/1983 | 6:00  | 293.98 | 8550 | PRECIPITATOR PERFORMANCE   |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 8/11/1983 | 6:00  | 8/12/1983 | 2:00  | 20     | 310  | 61 & 62 MILLS OUT UNAVAILABLE TO TRANSFER FROM UNIT 5 DUE TO OUTAGE.       |

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|     |     |              |      |     |    |            |       |            |       |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---|
| 521 | 168 | Oak Creek #6 | 000* | 225 | PD | 8/12/1983  | 2:00  | 8/14/1983  | 1:00  | 47     | 8560 | POOR PRECIPITATOR PERFORMANCE<br>CAUSING EXCESSIVE STACK<br>EMISSIONS       |
| 521 | 168 | Oak Creek #6 | 000* | 60  | D1 | 8/14/1983  | 1:00  | 8/16/1983  | 13:15 | 60.25  | 310  | 61, 62, AND 63 MILL SYSTEMS OUT OF<br>SERVICE                               |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 8/16/1983  | 20:20 | 8/17/1983  | 3:58  | 7.63   | 8560 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 70  | D1 | 8/16/1983  | 16:00 | 8/16/1983  | 20:20 | 4.33   | 200  | BALANCE 61 MILL EXHAUST FAN   |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 8/16/1983  | 13:15 | 8/16/1983  | 16:00 | 2.75   | 8560 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 8/17/1983  | 3:58  | 8/17/1983  | 6:30  | 2.53   | 3611 | LINE 862 OCB BO OIL LEAK AFTER<br>LIGHTING                                  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 8/17/1983  | 6:31  | 8/25/1983  | 3:01  | 188.5  | 1060 | REHEATER LEAKS  |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D2 | 8/27/1983  | 1:45  | 8/28/1983  | 2:30  | 24.75  | 1999 | BOILER CONDITIONS-UNABLE TO<br>CONTROL BOILER TEMPERATURES-<br>LACK OF SLAG |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D2 | 8/28/1983  | 2:30  | 9/5/1983   | 4:00  | 193.5  | 1999 | BOILER CONDITIONS UNABLE TO<br>CONTROL BOILER TEMPERATURES,<br>LACK OF SLAG |
| 521 | 168 | Oak Creek #6 | 000* | 51  | D1 | 9/5/1983   | 4:00  | 9/6/1983   | 2:00  | 22     | 310  | LOW COAL LEVELS-61 & 62 MILLS OUT<br>OF SERVICE                             |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/6/1983   | 19:49 | 9/10/1983  | 8:39  | 84.83  | 1020 | CONVECTION WATERWALL TUBE LEAK  |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 9/12/1983  | 1:30  | 9/17/1983  | 1:45  | 120.25 | 1999 | SUPERHEAT TEMPERATURE CONTROL   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/20/1983  | 2:25  | 9/25/1983  | 14:36 | 132.21 | 4740 | GENERATOR LOCKOUT   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/25/1983  | 15:40 | 9/27/1983  | 11:30 | 43.83  | 1140 | RADIANT SUPERHEATER TUBE<br>FAILURE   |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 9/28/1983  | 1:45  | 9/29/1983  | 7:00  | 29.25  | 1850 | HIGH SILICA IN BOILER WATER   |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 9/29/1983  | 7:00  | 10/1/1983  | 1:30  | 42.5   | 530  | SUPERHEAT TEMPERATURE CONTROL   |
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 10/1/1983  | 1:30  | 10/4/1983  | 2:30  | 73     | 530  | SUPERHEAT TEMPERATURE CONTROL   |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 10/7/1983  | 9:10  | 10/8/1983  | 4:30  | 19.33  | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 10/8/1983  | 9:00  | 10/9/1983  | 2:00  | 17     | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 10/9/1983  | 2:00  | 10/9/1983  | 12:15 | 10.25  | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 10/12/1983 | 1:30  | 10/12/1983 | 9:00  | 7.5    | 8560 | PRECIPITATOR PERFORMANCE LOW  |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 10/12/1983 | 9:00  | 10/13/1983 | 13:41 | 28.68  | 1150 | SUPERHEAT TUBE RUPTURE-<br>OPERATING AT REDUCED PRESSURE                    |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 10/13/1983 | 13:41 | 10/30/1983 | 12:55 | 407.23 | 1810 | PLANNED OUTAGE FOR INSPECTIONS  |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 10/31/1983 | 1:30  | 11/1/1983  | 2:00  | 24.5   | 1850 | HIGH SILICA IN BOILER WATER   |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 11/1/1983  | 2:00  | 11/2/1983  | 0:15  | 22.25  | 360  | #8 PULV FDR OUT OF SERVICE-DRIVE<br>COUPLING REPLACEMENT.                   |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 11/2/1983  | 10:50 | 11/2/1983  | 14:15 | 3.41   | 1850 | SILICA HIGH HAD TO REDUCE BLR<br>P-RRESSURE.                                |
| 521 | 168 | Oak Creek #6 | 000* | 153 | D1 | 11/2/1983  | 14:15 | 11/3/1983  | 2:00  | 11.75  | 1850 | SILICA INCREASING HAD TO REDUCE<br>BLR PRESSURE.                            |

WEPCO 40055

|     |     |              |      |     |    |            |       |            |          |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|--------|------|---|
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 11/4/1983  | 17:00 | 11/4/1983  | 20:45    | 3.75   | 250  | 68 PULV COAL FEEDER OUT OF SERVICE CHAIN FELL OFF                                     |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 11/9/1983  | 8:55  | 11/15/1983 | 1:30     | 136.58 | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 11/17/1983 | 12:30 | 11/17/1983 | 18:30    | 6      | 250  | #63 PULV COAL FDR-CHAIN FELL OFF  |
| 521 | 168 | Oak Creek #6 | 000* | 125 | D1 | 11/23/1983 | 15:15 | 11/24/1983 | 0:45     | 9.5    | 350  | EVEN PULV FUEL FEEDER MAIN CONTRACTOR COIL BURNT OUT NO REPLACEMENT                   |
| 521 | 168 | Oak Creek #6 | 000* | 160 | PD | 11/24/1983 | 3:00  | 11/24/1983 | 3:55     | 0.91   | 1400 | CHANGE OIL ON 62 FD FAN   |
| 521 | 168 | Oak Creek #6 | 000* | 218 | D1 | 11/26/1983 | 8:30  | 11/26/1983 | 21:30    | 13     | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 11/26/1983 | 21:30 | 11/27/1983 | 12:15    | 14.75  | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 11/28/1983 | 7:18  | 11/28/1983 | 7:35     | 0.28   | 360  | #66 PULV COAL FDR OUT   |
| 521 | 168 | Oak Creek #6 | 000* | 130 | D1 | 11/28/1983 | 7:35  | 11/28/1983 | 9:45     | 2.16   | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 11/28/1983 | 9:45  | 11/28/1983 | 13:25    | 3.66   | 360  | #66 PULV COAL FDR OUT   |
| 521 | 168 | Oak Creek #6 | 000* | 198 | D1 | 12/1/1983  | 15:40 | 12/1/1983  | 18:00    | 2.33   | 250  | 63 FEEDER DRIVE SPROCKET REPAIR   |
| 521 | 168 | Oak Creek #6 | 000* | 198 | D2 | 12/1/1983  | 21:30 | 12/2/1983  | 0:29     | 2.98   | 250  | 63 FEEDER DRIVE ADJ CHAIN REPOSITION MOTOR  |
| 521 | 168 | Oak Creek #6 | 000* | 100 | D1 | 12/1/1983  | 1:00  | 12/7/1983  | 5:40     | 148.66 | 1130 | WATERBLASTING SLAG IN ASH PIT -#4 CELL  |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 12/2/1983  | 9:00  | 12/5/1983  | 23:00    | 86     | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D2 | 12/5/1983  | 23:00 | 12/6/1983  | 6:00     | 7      | 250  | 63 PULV COAL FDR OUT FOR REPAIR   |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 12/6/1983  | 6:00  | 12/6/1983  | 6:40     | 0.66   | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 12/6/1983  | 12:00 | 12/6/1983  | 16:00    | 4      | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 12/6/1983  | 16:00 | 12/7/1983  | 1:00     | 9      | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 12/7/1983  | 5:40  | 12/7/1983  | 10:00    | 4.33   | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 12/12/1983 | 2:00  | 12/12/1983 | 7:30     | 5.5    | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 12/14/1983 | 1:45  | 12/16/1983 | 1:45     | 48     | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 12/16/1983 | 1:45  | 12/29/1983 | 7:30     | 317.75 | 8560 | PRECIPITATOR FIELD OUT  |
| 521 | 168 | Oak Creek #6 | 000* | 215 | D1 | 12/29/1983 | 7:30  | 12/31/1983 | 5:45     | 46.25  | 8560 | PRECIPITATOR FIELDS OUT   |
| 521 | 168 | Oak Creek #6 | 000* | 165 | D1 | 12/31/1983 | 5:45  | 12/31/1983 | 24:00:00 | 18.25  | 250  | 61 PULV FDR PLUGGED, EXTENDS INTO '84. SEE EVENT NO. 1.                               |
| 521 | 168 | Oak Creek #6 | 000* | 165 | D1 | 1/1/1984   | 0:00  | 1/1/1984   | 6:00     | 6      | 250  | 61 PULV FDR PLUGGED. EVENT STARTED IN '83 EVENT NO 93. ACTUAL STARTIME 12/31/83 05/45 |
| 521 | 168 | Oak Creek #6 | 000* | 215 | D1 | 1/1/1984   | 6:00  | 1/4/1984   | 3:38     | 69.63  | 8560 | PRECIP FEILDS OUT.  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 1/4/1984   | 3:38  | 1/9/1984   | 22:44    | 139.1  | 1060 | REHEAT LEAK.  |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 1/10/1984  | 1:30  | 1/11/1984  | 1:15     | 23.75  | 1850 | HIGH BLR WATER SILICA   |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 1/11/1984  | 1:15  | 1/12/1984  | 1:45     | 24.5   | 530  | HIGH SUPERHEAT TEMP   |
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 1/12/1984  | 1:45  | 1/12/1984  | 23:48    | 22.05  | 530  | HIGH SUPERHEAT TEMP   |
| 521 | 168 | Oak Creek #6 |      |     | U2 | 1/12/1984  | 23:40 | 1/15/1984  | 15:09    | 63.48  | 1060 | REHEAT LEAKS  |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 1/16/1984  | 1:15  | 1/17/1984  | 1:30     | 24.25  | 530  | HIGH SUPERHEAT TEMP   |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 1/17/1984  | 1:30  | 1/19/1984  | 1:25     | 47.91  | 530  | HIGH SUPERHEAT TEMPS  |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 1/20/1984  | 9:35  | 1/21/1984  | 15:35    | 30     | 250  | PULVERIZED FEEDERS  |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 1/25/1984  | 9:46  | 1/30/1984  | 11:56    | 122.16 | 1080 | ECONOMIZER  |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 1/31/1984  | 2:15  | 2/1/1984   | 2:00     | 23.75  | 530  | HIGH SUPERHEAT TEMPERATURES   |
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 2/1/1984   | 2:00  | 2/2/1984   | 1:50     | 23.83  | 530  | HIGH SUPERHEAT TEMPERATURES   |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 2/2/1984   | 1:50  | 2/3/1984   | 1:30     | 23.66  | 8560 | PRECIPITATOR PERFORMANCE  |

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|     |     |              |      |     |    |           |       |           |       |         |      |                                     |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|---------|------|-------------------------------------|
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 2/3/1984  | 1:30  | 2/7/1984  | 14:00 | 108.5   | 8560 | ELECTROSTATIC PRECIPITATOR PROBLEMS |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 2/8/1984  | 9:30  | 2/9/1984  | 0:01  | 14.51   | 8560 | PRECIP PERFORM.                     |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 2/9/1984  | 0:01  | 2/10/1984 | 2:00  | 25.98   | 8560 | PRECIP PERFORMANCE                  |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 2/10/1984 | 2:00  | 2/10/1984 | 7:45  | 5.75    | 8560 | ELECTROSTATIC PRECIP PROBLEMS       |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 2/10/1984 | 7:45  | 2/12/1984 | 11:40 | 51.91   | 360  | BURNERS #66 PULV FDRS               |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 2/10/1984 | 11:40 | 2/11/1984 | 1:45  | 14.08   | 8560 | ELECTROSTATIC PRECIP PROBLEMS       |
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 2/11/1984 | 1:45  | 2/14/1984 | 15:30 | 85.75   | 8560 | ELECTROSTATIC PRECIP PROBLEMS       |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 2/14/1984 | 15:30 | 2/19/1984 | 11:42 | 116.2   | 1020 | CONVECTION LEAK                     |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 2/19/1984 | 23:30 | 2/21/1984 | 1:29  | 25.98   | 530  | HIGH SUPERHEAT TEMPERATURES         |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 2/21/1984 | 1:30  | 2/21/1984 | 20:00 | 18.5    | 530  | HIGH SUPERHEAT TEMPERATURES         |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 2/21/1984 | 20:01 | 2/22/1984 | 21:49 | 25.8    | 8560 | ELECTROSTATIC PRECIP PROBLEMS       |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 2/22/1984 | 21:49 | 2/23/1984 | 6:00  | 8.18    | 8560 | ELECTROSTATIC PRECIP PROBLEMS       |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 2/23/1984 | 6:00  | 2/23/1984 | 8:00  | 2       | 4309 | OTHER TURB INST & CONT PROBLEMS     |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 2/24/1984 | 1:35  | 2/24/1984 | 10:00 | 8.41    | 530  | HIGH SUPERHEAT TEMPERATURES         |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 2/24/1984 | 10:00 | 2/25/1984 | 7:56  | 21.93   | 530  | HIGH SUPERHEAT TEMP                 |
| 521 | 168 | Oak Creek #6 | 000* | 70  | D1 | 2/25/1984 | 7:56  | 2/25/1984 | 16:50 | 8.89    | 880  | FLYASH HANDLING                     |
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 2/25/1984 | 16:50 | 2/27/1984 | 7:55  | 39.08   | 530  | HIGH SUPERHEAT TEMP                 |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 2/27/1984 | 7:55  | 2/27/1984 | 8:35  | 0.66    | 880  | FLYASH HANDLING                     |
| 521 | 168 | Oak Creek #6 | 000* | 208 | D1 | 3/26/1984 | 7:00  | 3/26/1984 | 11:28 | 4.46    | 8560 | ELECTROSTATIC PRECIP PROBLEMS       |
| 521 | 168 | Oak Creek #6 | 000* | 185 | D1 | 3/26/1984 | 11:28 | 3/28/1984 | 7:05  | 43.61   | 8560 | ELECTROSTATIC PRECIP PROBLEMS       |
| 521 | 168 | Oak Creek #6 | 000* | 215 | D1 | 3/28/1984 | 7:05  | 3/28/1984 | 8:50  | 1.75    | 8560 | ELECTROSTATIC PRECIP PROBLEMS       |
| 521 | 168 | Oak Creek #6 | 000* | 185 | D1 | 3/28/1984 | 8:50  | 3/29/1984 | 16:00 | 31.16   | 8560 | ELECTROSTATIC PRECIP PROBLEMS       |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 3/29/1984 | 16:00 | 3/30/1984 | 20:30 | 28.5    | 1060 | RED PRESS RHTR LEAK                 |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 3/30/1984 | 20:30 | 4/6/1984  | 6:05  | 153.58  | 1060 | REPAIR REHEAT LEAKS                 |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 4/7/1984  | 1:00  | 4/9/1984  | 1:00  | 48      | 530  | HIGH SUPERHEAT TEMPS                |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 4/16/1984 | 9:00  | 4/16/1984 | 11:00 | 2       | 410  | BURNER PROB 63 PULV COAL FDR        |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 4/16/1984 | 11:00 | 4/17/1984 | 14:00 | 27      | 590  | DESUPERHTR/ATTEMPERATOR VLVS        |
| 521 | 168 | Oak Creek #6 | 000* | 155 | D4 | 4/17/1984 | 21:00 | 4/17/1984 | 23:38 | 2.63    | 3441 | OTHER HI PRESSURE HTR PROBLEMS      |
| 521 | 168 | Oak Creek #6 | 000* | 205 | D1 | 4/23/1984 | 7:30  | 4/23/1984 | 12:40 | 5.16    | 410  | BURNER PROBLEMS                     |
| 521 | 168 | Oak Creek #6 |      |     | PO | 4/24/1984 | 23:38 | 4/25/1984 | 1:10  | 1.53    | 4460 | TURBINE OVERSPEED TRIP TEST         |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 4/25/1984 | 4:50  | 4/25/1984 | 16:30 | 11.66   | 410  | BURNER PROBLEMS                     |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 4/26/1984 | 13:00 | 4/28/1984 | 2:32  | 37.53   | 8560 | ELECTROSTATIC PRECIP PROBLEMS       |
| 521 | 168 | Oak Creek #6 |      |     | PO | 4/28/1984 | 2:32  | 7/29/1984 | 16:54 | 2222.36 | 1800 | ANNUAL OUTAGE                       |
| 521 | 168 | Oak Creek #6 | 000* | 125 | D1 | 7/29/1984 | 16:54 | 7/30/1984 | 10:40 | 17.76   | 1850 | BOILER WATER COND.                  |
| 521 | 168 | Oak Creek #6 | 000* | 70  | D1 | 7/30/1984 | 10:40 | 7/31/1984 | 14:10 | 27.5    | 1850 | BOILER WATER CONDITION              |
| 521 | 168 | Oak Creek #6 | 000* | 60  | D1 | 7/31/1984 | 14:10 | 8/1/1984  | 18:46 | 28.6    | 4613 | HYDROGEN SEALS                      |
| 521 | 168 | Oak Creek #6 | *    |     | U3 | 8/1/1984  | 18:46 | 8/3/1984  | 16:00 | 45.23   | 4613 | HYDROGEN SEAL                       |
| 521 | 168 | Oak Creek #6 | *    |     | U3 | 8/3/1984  | 16:01 | 8/4/1984  | 14:25 | 22.4    | 1060 | REHEAT LEAK                         |
| 521 | 168 | Oak Creek #6 | 000* | 125 | D1 | 8/4/1984  | 14:25 | 8/5/1984  | 10:00 | 19.58   | 1850 | BOILER WATER CONDITION              |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 8/5/1984  | 10:00 | 8/6/1984  | 15:00 | 29      | 1450 | OTHER AIR SUPPLY PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 80  | D1 | 8/6/1984  | 15:00 | 8/6/1984  | 18:30 | 3.5     | 9900 | OPERATOR ERROR                      |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 8/6/1984  | 18:30 | 8/7/1984  | 21:00 | 26.5    | 1850 | BOILER WATER CONDITION              |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 8/7/1984  | 21:00 | 8/9/1984  | 23:00 | 50      | 1900 | CLN FURN-LO MIN LOAD                |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 8/9/1984  | 23:00 | 8/11/1984 | 5:05  | 30.08   | 1900 | CLN FURN-LO MIN LOAD                |

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|     |     |              |      |     |    |            |       |            |       |        |      |                                |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|--------------------------------|---|
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 8/11/1984  | 5:05  | 8/11/1984  | 22:41 | 17.6   | 1080 | ECONOMIZER                     |   |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 8/11/1984  | 22:41 | 8/12/1984  | 8:30  | 9.81   | 1850 | BOILER WATER CONDITION         |   |
| 521 | 168 | Oak Creek #6 | 000* | 100 | D1 | 8/12/1984  | 8:30  | 8/12/1984  | 13:55 | 5.41   | 3412 | FDWTR PUMP STEAM TURBINE       |   |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 8/12/1984  | 13:55 | 8/12/1984  | 21:00 | 7.08   | 1850 | BOILER WATER CONDITION         |   |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 8/12/1984  | 21:00 | 8/13/1984  | 10:40 | 13.66  | 1900 | CLN FURN-LO MIN LOAD           |   |
| 521 | 168 | Oak Creek #6 | 000* | 185 | D1 | 8/13/1984  | 10:40 | 8/14/1984  | 2:00  | 15.33  | 1900 | CLN FURN-LO MIN LOAD           |   |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 8/14/1984  | 2:00  | 8/15/1984  | 2:00  | 24     | 1900 | CLN FURN-LO MIN LOAD           |   |
| 521 | 168 | Oak Creek #6 | 000* | 215 | D1 | 8/15/1984  | 2:00  | 8/16/1984  | 5:45  | 27.75  | 1900 | CLN FURN-LO MIN LOAD           |   |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 8/16/1984  | 5:45  | 8/16/1984  | 17:00 | 11.25  | 1850 | BOILER WATER CONDITION         |   |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 8/16/1984  | 17:00 | 8/19/1984  | 22:00 | 77     | 1900 | CLN FURN-LO MIN LOAD           |   |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 8/19/1984  | 22:00 | 8/20/1984  | 4:58  | 6.96   | 1470 | ID FAN MTRS & DRIVES           |   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 8/20/1984  | 4:58  | 8/24/1984  | 15:36 | 106.63 | 1080 | ECONOMIZER TUBE LEAK           |   |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 8/25/1984  | 1:00  | 8/26/1984  | 1:00  | 24     | 1900 | CLN FURN                       |   |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 8/26/1984  | 1:00  | 8/26/1984  | 23:30 | 22.5   | 1900 | CLN FURN-LO MIN LOAD           |   |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 8/26/1984  | 23:30 | 8/27/1984  | 5:59  | 6.48   | 1900 | CLN FURN-LO MIN LOAD           |   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 8/27/1984  | 5:59  | 8/30/1984  | 3:57  | 69.96  | 1080 | ECONOMIZER LEAK                |   |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 8/30/1984  | 3:57  | 8/31/1984  | 1:30  | 21.55  | 1850 | BOILER WATER CONDITION         |   |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 8/31/1984  | 1:30  | 9/1/1984   | 4:10  | 26.66  | 1900 | CLN FURN                       |   |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 9/1/1984   | 4:10  | 9/2/1984   | 4:50  | 24.66  | 880  | FLYASH HANDLING                |   |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 9/2/1984   | 4:50  | 9/3/1984   | 4:15  | 23.41  | 1900 | CLEAN FURNACE                  |   |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 9/3/1984   | 4:15  | 9/5/1984   | 4:15  | 48     | 1900 | CLEAN FURNACE                  |   |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 9/6/1984   | 10:45 | 9/9/1984   | 9:24  | 70.65  | 1470 | ID FAN MOTORS & DRIVES         |   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/9/1984   | 9:24  | 9/9/1984   | 10:46 | 1.36   | 1470 | ID FAN MOTORS & DRIVES         |   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/9/1984   | 10:46 | 9/9/1984   | 19:05 | 8.31   | 4609 | OTHER EXCITOR PROBLEMS         |   |
| 521 | 168 | Oak Creek #6 | 000* | 80  | D1 | 9/9/1984   | 19:05 | 9/10/1984  | 1:00  | 5.91   | 1850 | BOILER WATER CONDITION         |   |
| 521 | 168 | Oak Creek #6 | 000* | 125 | D1 | 9/10/1984  | 1:00  | 9/10/1984  | 10:20 | 9.33   | 1850 | BOILER WATER CONDITION         |   |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 9/10/1984  | 10:20 | 9/10/1984  | 14:45 | 4.41   | 1470 | ID FANS MTRS & DRIVES          |   |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 9/10/1984  | 14:45 | 9/10/1984  | 17:45 | 3      | 410  | OTHER BURNER PROBLEMS          |   |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 9/10/1984  | 17:45 | 9/17/1984  | 2:32  | 152.78 | 1470 | ID FANS MTRS & DRIVES          |   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/17/1984  | 2:32  | 9/18/1984  | 5:50  | 27.3   | 1080 | ECON LEAK                      |   |
| 521 | 168 | Oak Creek #6 | 000* | 80  | D1 | 9/18/1984  | 5:50  | 9/18/1984  | 19:00 | 13.16  | 1850 | BLR WATER CONDITION            |   |
|     |     |              |      |     |    |            |       |            |       |        |      | ID FANS MOTORS & DRIVES        | D |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 9/18/1984  | 19:00 | 9/22/1984  | 9:00  | 86     | 1470 | SHAFT.                         |   |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 9/22/1984  | 9:00  | 9/30/1984  | 2:30  | 185.5  | 1470 | ID FAN MOTOR & DRIVE           |   |
| 521 | 168 | Oak Creek #6 | 000* | 195 | D1 | 10/3/1984  | 9:30  | 10/3/1984  | 10:00 | 0.5    | 410  | OTHER BURNER PROBLEMS          |   |
| 521 | 168 | Oak Creek #6 | 000* | 145 | D1 | 10/3/1984  | 10:36 | 10/18/1984 | 17:00 | 366.4  | 1455 | INDUCED DRAFT FAN              |   |
| 521 | 168 | Oak Creek #6 | 000* | 110 | D1 | 10/18/1984 | 17:00 | 10/18/1984 | 22:25 | 5.41   | 410  | OTHER BURNER PROBLEMS          |   |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 10/18/1984 | 22:25 | 10/19/1984 | 16:45 | 18.33  | 1455 | INDUCED DRAFT FANS             |   |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 10/19/1984 | 16:45 | 10/24/1984 | 11:53 | 115.13 | 1455 | INDUCED DRAFT FANS             |   |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 11/2/1984  | 18:00 | 11/2/1984  | 19:00 | 1      | 410  | OTHER BURNER PROBLEMS          |   |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 11/14/1984 | 20:00 | 11/15/1984 | 1:30  | 5.5    | 410  | OTHER BURNER PROBLEMS - 67 FDR |   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 11/21/1984 | 19:17 | 11/25/1984 | 22:18 | 99.01  | 1005 | GENERATING TUBE                |   |
| 521 | 168 | Oak Creek #6 | 000* | 74  | D1 | 11/26/1984 | 7:00  | 11/26/1984 | 16:00 | 9      | 340  | OTHER PULVERIZER PROBLEMS      |   |
| 521 | 168 | Oak Creek #6 | 000* | 165 | D1 | 11/26/1984 | 16:00 | 11/26/1984 | 23:00 | 7      | 1850 | BOILER WATER CONDITION         |   |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 11/26/1984 | 23:00 | 11/27/1984 | 19:00 | 20     | 1850 | BOILER WATER CONDITION         |   |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 11/27/1984 | 19:00 | 11/28/1984 | 1:00  | 6      | 410  | OTHER BURNER PROBLEMS          |   |

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|     |     |              |      |     |    |            |          |            |          |        |      |   |
|-----|-----|--------------|------|-----|----|------------|----------|------------|----------|--------|------|---|
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 11/28/1984 | 13:42    | 11/30/1984 | 9:46     | 44.06  | 1005 | GENERATING TUBE RUPTURE IN BOILER CONVECTION SECTION. |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 12/2/1984  | 7:45     | 12/2/1984  | 14:15    | 6.5    | 1850 | BOILER WATER CONDITION                                |
| 521 | 168 | Oak Creek #6 | 000* | 195 | D1 | 12/3/1984  | 8:00     | 12/4/1984  | 6:30     | 22.5   | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 234 | D1 | 12/5/1984  | 17:05    | 12/10/1984 | 1:30     | 104.41 | 1900 | CLN FURN  |
| 521 | 168 | Oak Creek #6 | 000* | 160 | D1 | 12/12/1984 | 17:00    | 12/12/1984 | 22:00    | 5      | 310  | MILL PROBLEMS   |
| 521 | 168 | Oak Creek #6 | 000* | 77  | D1 | 12/29/1984 | 5:55     | 12/30/1984 | 11:15    | 29.33  | 3669 | OTHER 4160 VOLT PROBLEMS                              |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 1/11/1985  | 23:11    | 1/12/1985  | 5:30     | 6.31   | 240  | PULVERIZED COAL BIN                                   |
| 521 | 168 | Oak Creek #6 | 000* | 50  | D1 | 1/12/1985  | 18:45    | 1/13/1985  | 15:30    | 20.75  | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 1/14/1985  | 11:45    | 1/15/1985  | 22:00    | 34.25  | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 1/17/1985  | 7:00     | 1/18/1985  | 21:49    | 38.81  | 1999 | UNKNOWN-INVESTIGATING                                 |
| 521 | 168 | Oak Creek #6 |      |     | U2 | 1/18/1985  | 21:49    | 1/19/1985  | 9:20     | 11.51  | 1060 | FIRST REHEAT TUBE LEAKS                               |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 1/20/1985  | 18:00    | 1/22/1985  | 21:00    | 51     | 1999 | UNKNOWN INVESTIGATING                                 |
| 521 | 168 | Oak Creek #6 |      |     | MO | 1/22/1985  | 21:00    | 1/29/1985  | 12:00    | 159    | 1060 | MAINTENANCE OUTAGE                                    |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 1/29/1985  | 12:00    | 1/31/1985  | 24:00:00 | 60     | 880  | FLYASH HANDLING                                       |
| 521 | 168 | Oak Creek #6 |      |     | SF | 1/31/1985  | 24:00:00 | 2/1/1985   | 13:30    | 13.5   | 4283 | LUBE OIL SYS VLVS & PIPING                            |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 2/4/1985   | 17:34    | 2/4/1985   | 21:00    | 3.43   | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D4 | 2/5/1985   | 21:00    | 2/6/1985   | 4:30     | 7.5    | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 2/6/1985   | 8:00     | 2/11/1985  | 7:30     | 119.5  | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 2/11/1985  | 7:30     | 2/11/1985  | 9:35     | 2.08   | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 2/11/1985  | 10:30    | 2/14/1985  | 23:00    | 84.5   | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 2/15/1985  | 7:00     | 2/17/1985  | 3:15     | 44.25  | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 2/21/1985  | 19:00    | 2/21/1985  | 22:00    | 3      | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 85  | D1 | 2/25/1985  | 11:30    | 2/26/1985  | 19:02    | 31.53  | 1150 | 2ND SUPERHTR SLAG BUILD UP                            |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 2/26/1985  | 19:02    | 3/2/1985   | 23:00    | 99.96  | 1005 | GENERATING TUBE                                       |
| 521 | 168 | Oak Creek #6 |      |     | SF | 3/2/1985   | 23:00    | 3/4/1985   | 9:58     | 34.96  | 920  | OTHER SLAG REMOVAL PROBLEMS                           |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 3/5/1985   | 20:00    | 3/6/1985   | 4:00     | 8      | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 3/6/1985   | 8:00     | 3/9/1985   | 5:15     | 69.25  | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 80  | D1 | 3/9/1985   | 5:15     | 3/9/1985   | 10:30    | 5.25   | 9290 | WET COAL-MILL PROBLEMS                                |
| 521 | 168 | Oak Creek #6 | 000* | 80  | D1 | 3/10/1985  | 4:00     | 3/10/1985  | 15:15    | 11.25  | 9290 | WET COAL-MILL PROBLEMS                                |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 3/11/1985  | 9:00     | 3/12/1985  | 16:30    | 31.5   | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 3/27/1985  | 10:55    | 4/1/1985   | 1:00     | 110.08 | 1060 | REHEATER LEAKS  |
| 521 | 168 | Oak Creek #6 |      |     | SF | 4/1/1985   | 1:00     | 4/1/1985   | 7:41     | 6.68   | 4609 | OTHER EXCITER PROBLEMS                                |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 4/2/1985   | 9:38     | 4/2/1985   | 13:00    | 3.36   | 1850 | BOILER WATER CONDITION                                |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 4/13/1985  | 23:04    | 4/29/1985  | 0:35     | 361.51 | 4520 | GEN WINDINGS BSHNGS & TERMINALS                       |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 5/7/1985   | 8:00     | 5/7/1985   | 11:50    | 3.83   | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 5/8/1985   | 8:30     | 5/8/1985   | 12:45    | 4.25   | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 5/8/1985   | 22:00    | 5/10/1985  | 17:05    | 43.08  | 9630 | OPACITY FOS STM UNIT                                  |
| 521 | 168 | Oak Creek #6 |      |     | MO | 5/10/1985  | 17:05    | 5/15/1985  | 3:24     | 106.31 | 1005 | GENERATING TUBE                                       |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 5/15/1985  | 20:00    | 5/16/1985  | 3:50     | 7.83   | 3440 | "B" SET HI PRESS HTRS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 5/16/1985  | 8:00     | 5/16/1985  | 22:29    | 14.48  | 1005 | GENERATING TUBES-RED PRESS                            |
| 521 | 168 | Oak Creek #6 |      |     | MO | 5/16/1985  | 22:29    | 5/18/1985  | 16:42    | 42.21  | 1020 | CONVECTION PASS WALL                                  |
| 521 | 168 | Oak Creek #6 | 000* | 157 | D1 | 5/21/1985  | 16:15    | 5/21/1985  | 21:30    | 5.25   | 3502 | HEATER LEVEL CONTROL                                  |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 5/24/1985  | 9:00     | 5/24/1985  | 12:15    | 3.25   | 410  | OTHER BURNER PROBLEMS                                 |
| 521 | 168 | Oak Creek #6 | 000* | 238 | D1 | 5/28/1985  | 9:45     | 5/29/1985  | 3:00     | 17.25  | 8560 | ELECTROSTATIC PRECIP PROBLEMS                         |

|     |     |              |      |     |    |           |          |           |          |        |      |                                 |
|-----|-----|--------------|------|-----|----|-----------|----------|-----------|----------|--------|------|---------------------------------|
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 5/29/1985 | 10:54    | 5/30/1985 | 2:45     | 15.85  | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 5/30/1985 | 9:30     | 5/31/1985 | 20:42    | 35.2   | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 5/31/1985 | 20:42    | 6/1/1985  | 4:50     | 8.13   | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 150 | PD | 6/1/1985  | 4:50     | 6/1/1985  | 18:00    | 13.16  | 3440 | B SET HI PRESS FDWTR HTRS       |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 6/1/1985  | 18:00    | 6/5/1985  | 7:00     | 85     | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 70  | D1 | 6/5/1985  | 7:00     | 6/5/1985  | 15:35    | 8.58   | 310  | PULVERIZER MILLS                |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 6/5/1985  | 15:35    | 6/6/1985  | 11:05    | 19.5   | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 130 | D1 | 6/8/1985  | 7:00     | 6/8/1985  | 16:05    | 9.08   | 1480 | 61 ID FAN LIQUID RHEOSTAT       |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 6/14/1985 | 9:57     | 6/16/1985 | 6:00     | 44.05  | 8560 | ELECTROSTATIC PRECIPITATOR PROB |
| 521 | 168 | Oak Creek #6 | 000* | 150 | PD | 6/16/1985 | 6:00     | 6/16/1985 | 14:25    | 8.41   | 3441 | OTHER HIGH PRESS HTR PROBLEMS   |
| 521 | 168 | Oak Creek #6 | 000* | 187 | D1 | 6/17/1985 | 15:30    | 6/18/1985 | 8:50     | 17.33  | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 6/20/1985 | 4:00     | 6/21/1985 | 4:00     | 24     | 3441 | OTHER HI PRESS HTR PROBLEMS     |
| 521 | 168 | Oak Creek #6 | 000* | 215 | D1 | 6/21/1985 | 9:38     | 6/21/1985 | 22:35    | 12.95  | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 168 | Oak Creek #6 |      |     | MO | 6/21/1985 | 22:35    | 6/26/1985 | 8:05     | 105.5  | 1070 | SECOND REHEATER                 |
| 521 | 168 | Oak Creek #6 |      |     | SF | 6/26/1985 | 8:05     | 6/27/1985 | 0:58     | 16.88  | 530  | OTHER MAIN STEAM SYS PROBLEMS   |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 6/28/1985 | 11:20    | 6/28/1985 | 13:55    | 2.58   | 310  | PULVERIZER MILLS                |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 7/1/1985  | 13:00    | 7/1/1985  | 18:00    | 5      | 800  | DRUM SAFETY VALVES              |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 7/2/1985  | 13:26    | 7/5/1985  | 8:34     | 67.13  | 800  | DRUM SAFETY VALVES              |
| 521 | 168 | Oak Creek #6 | 000* | 70  | D1 | 7/5/1985  | 8:34     | 7/5/1985  | 21:32    | 12.96  | 300  | PULVERIZER MOTORS AND DRIVES    |
| 521 | 168 | Oak Creek #6 |      |     | MO | 7/5/1985  | 21:32    | 7/6/1985  | 15:45    | 18.21  | 800  | REPAIR LEAKING DRUM SAFETY VLVS |
| 521 | 168 | Oak Creek #6 |      |     | RS | 7/6/1985  | 15:45    | 7/7/1985  | 17:13    | 25.46  | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | 000* | 105 | D1 | 7/14/1985 | 10:00    | 7/14/1985 | 13:07    | 3.11   | 4750 | OTHER GEN CNTRL & METERING PROB |
| 521 | 168 | Oak Creek #6 | 000* | 70  | D1 | 8/1/1985  | 7:30     | 8/2/1985  | 1:30     | 18     | 330  | MILL COAL LEAKS                 |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 8/6/1985  | 11:30    | 8/6/1985  | 14:00    | 2.5    | 1999 | INVESTIGATING UNKNOWN           |
| 521 | 168 | Oak Creek #6 | 000* | 80  | D1 | 8/6/1985  | 14:00    | 8/7/1985  | 0:01     | 10.01  | 310  | PULVERIZER MILLS                |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 8/7/1985  | 6:50     | 8/7/1985  | 18:30    | 11.66  | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 65  | D1 | 8/7/1985  | 18:30    | 8/8/1985  | 20:30    | 26     | 310  | PULVERIZER MILLS                |
| 521 | 168 | Oak Creek #6 | 000* | 65  | D1 | 8/15/1985 | 12:17    | 8/16/1985 | 2:00     | 13.71  | 310  | PULVERIZER MILLS                |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 8/20/1985 | 16:45    | 8/20/1985 | 17:25    | 0.66   | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 195 | D1 | 8/20/1985 | 17:25    | 8/20/1985 | 19:25    | 2      | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 9/2/1985  | 13:27    | 9/3/1985  | 3:04     | 13.61  | 9910 | MAINTENANCE ERROR               |
| 521 | 168 | Oak Creek #6 | 000* | 125 | D1 | 9/6/1985  | 15:00    | 9/7/1985  | 8:00     | 17     | 310  | MILL PROBLEMS                   |
| 521 | 168 | Oak Creek #6 |      |     | MO | 9/14/1985 | 22:57    | 9/21/1985 | 4:24     | 149.45 | 1070 | SECOND REHEATER                 |
| 521 | 168 | Oak Creek #6 | 000* | 75  | D1 | 9/21/1985 | 14:00    | 9/22/1985 | 2:01     | 12.01  | 240  | PULVERIZED FUEL BIN             |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 9/22/1985 | 2:01     | 9/23/1985 | 24:00:00 | 45.98  | 1005 | GENERATING TUBE                 |
| 521 | 168 | Oak Creek #6 |      |     | RS | 9/23/1985 | 24:00:00 | 9/26/1985 | 16:09    | 64.15  | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | 000* | 50  | D1 | 9/27/1985 | 3:40     | 9/27/1985 | 5:30     | 1.83   | 360  | FEEDER PROBLEM                  |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 9/27/1985 | 5:30     | 9/27/1985 | 17:30    | 12     | 290  | PULVERIZER REDUCED CAPACITY     |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 9/27/1985 | 17:30    | 9/28/1985 | 4:40     | 11.16  | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 9/28/1985 | 4:40     | 9/29/1985 | 5:00     | 24.33  | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 9/29/1985 | 5:00     | 9/30/1985 | 2:00     | 21     | 3412 | STEAM BOILER FEED PUMP          |
| 521 | 168 | Oak Creek #6 |      |     | *  | 9/30/1985 | 11:25    | 10/1/1985 | 1:30     | 14.08  | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 10/1/1985 | 9:00     | 10/5/1985 | 9:30     | 96.5   | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 10/5/1985 | 9:30     | 10/7/1985 | 1:45     | 40.25  | 410  | OTHER BURNER PROBLEMS           |

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|     |     |              |      |     |    |            |       |            |          |         |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|---------|------|---|
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 10/7/1985  | 1:45  | 10/7/1985  | 5:05     | 3.33    | 3661 | 4160 VOLT CIRCUIT BREAKER                           |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 10/7/1985  | 5:05  | 10/7/1985  | 11:59    | 6.9     | 410  | OTHER BURNER PROBLEMS                               |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 10/7/1985  | 11:59 | 10/12/1985 | 16:04    | 124.08  | 1050 | SECOND SUPERHEATER                                  |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 10/14/1985 | 15:30 | 10/15/1985 | 3:00     | 11.5    | 310  | PULVERIZER MILLS                                    |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 10/15/1985 | 8:28  | 10/15/1985 | 14:26    | 5.96    | 310  | PULVERIZER MILLS                                    |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 10/16/1985 | 8:00  | 10/16/1985 | 10:08    | 2.13    | 310  | PULVERIZER MILLS                                    |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 10/18/1985 | 22:19 | 10/23/1985 | 10:31    | 108.2   | 1005 | GENERATING TUBES                                    |
| 521 | 168 | Oak Creek #6 | 000* | 220 | PD | 10/26/1985 | 7:00  | 10/26/1985 | 14:30    | 7.5     | 360  | BURNERS   |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 11/4/1985  | 17:40 | 11/4/1985  | 19:00    | 1.33    | 410  | OTHER BURNER PROBLEMS                               |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 11/11/1985 | 16:36 | 11/12/1985 | 19:00    | 26.4    | 4262 | CONTROL PROBLEM #1 INTERCEPT VV                     |
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 11/12/1985 | 19:00 | 11/16/1985 | 2:50     | 79.83   | 410  | OTHER BURNER PROBLEMS                               |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 11/16/1985 | 2:50  | 11/17/1985 | 2:45     | 23.91   | 410  | OTHER BURNER PROBLEMS                               |
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 11/17/1985 | 2:45  | 11/17/1985 | 5:00     | 2.25    | 410  | OTHER BURNER PROBLEMS                               |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 11/17/1985 | 5:00  | 11/17/1985 | 14:45    | 9.75    | 410  | OTHER BURNER PROBLEMS                               |
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 11/17/1985 | 14:45 | 11/18/1985 | 8:15     | 17.5    | 410  | OTHER BURNER PROBLEMS                               |
| 521 | 168 | Oak Creek #6 | 000* | 175 | D1 | 11/18/1985 | 8:15  | 11/18/1985 | 12:00    | 3.75    | 410  | OTHER BURNER PROBLEMS                               |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 11/18/1985 | 20:00 | 11/20/1985 | 8:31     | 36.51   | 1080 | ECONOMIZER TUBE FAILURE                             |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 11/20/1985 | 8:31  | 11/20/1985 | 14:43    | 6.2     | 9900 | OPERATOR ERROR                                      |
| 521 | 168 | Oak Creek #6 | 000* | 215 | D1 | 11/22/1985 | 12:04 | 11/22/1985 | 17:20    | 5.26    | 3810 | SERVICE WATER PUMPS & MOTORS                        |
| 521 | 168 | Oak Creek #6 | 000* | 240 | D1 | 11/22/1985 | 17:20 | 11/27/1985 | 23:31    | 126.18  | 410  | OTHER BURNER PROBLEMS                               |
| 521 | 168 | Oak Creek #6 |      |     | MO | 11/27/1985 | 23:31 | 11/30/1985 | 10:24    | 58.88   | 1005 | GENERATING TUBE LEAK                                |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 12/3/1985  | 8:30  | 12/3/1985  | 14:00    | 5.5     | 3502 | HEATER LEVEL CONTROL                                |
| 521 | 168 | Oak Creek #6 | 000* | 206 | D1 | 12/4/1985  | 12:25 | 12/4/1985  | 15:15    | 2.83    | 410  | OTHER BURNER PROBLEMS                               |
| 521 | 168 | Oak Creek #6 | 000* | 125 | D1 | 12/4/1985  | 21:00 | 12/5/1985  | 1:30     | 4.5     | 4230 | LOW PRESS TURBINE SHAFT-TEST                        |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 12/5/1985  | 14:00 | 12/6/1985  | 9:57     | 19.95   | 1040 | SUPERHEATER LEAK                                    |
| 521 | 168 | Oak Creek #6 |      |     | PO | 12/6/1985  | 9:57  | 12/31/1985 | 24:00:00 | 614.05  | 1800 | ANNUAL OUTAGE                                       |
| 521 | 168 | Oak Creek #6 |      |     | PO | 1/1/1986   | 0:01  | 3/17/1986  | 6:16     | 1806.25 | 1800 | ANNUAL OUTAGE. EVENT STARTED<br>12/06/85 @ 9:57 AM. |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 3/18/1986  | 2:00  | 3/19/1986  | 4:00     | 26      | 1850 | SILICA-BLR WATER CONDITION                          |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 3/19/1986  | 4:00  | 3/19/1986  | 10:00    | 6       | 200  | PULV EXHAUSTER FAN                                  |
| 521 | 168 | Oak Creek #6 | 000* | 65  | D1 | 3/19/1986  | 10:00 | 3/20/1986  | 2:30     | 16.5    | 200  | PULVERIZER EXHAUSTER FAN                            |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 3/20/1986  | 2:30  | 3/21/1986  | 1:00     | 22.5    | 1850 | SILICA BLR WATER CONDITION                          |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D2 | 3/21/1986  | 19:00 | 3/22/1986  | 23:59    | 28.98   | 1850 | BOILER WATER CONDITION                              |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 3/24/1986  | 12:30 | 3/25/1986  | 11:50    | 23.33   | 4262 | INTERCEPT VALVE                                     |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 3/25/1986  | 11:50 | 3/25/1986  | 17:30    | 5.66    | 3644 | PROTECTION DEVICES                                  |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 3/25/1986  | 17:30 | 3/25/1986  | 20:45    | 3.25    | 3441 | HI PRESS FDWTR HEATER                               |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 3/25/1986  | 20:45 | 3/30/1986  | 8:14     | 107.48  | 4262 | INTERCEPT VALVE                                     |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 3/30/1986  | 8:14  | 4/4/1986   | 11:26    | 123.2   | 9910 | MAINTENANCE ERROR                                   |
| 521 | 168 | Oak Creek #6 | 000* | 165 | D1 | 4/5/1986   | 16:00 | 4/11/1986  | 19:35    | 147.58  | 4262 | INTERCEPT VALVE                                     |
| 521 | 168 | Oak Creek #6 | 000* | 117 | D1 | 4/10/1986  | 18:15 | 4/10/1986  | 21:30    | 3.25    | 340  | OTHER PULV. PROBLEMS                                |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 4/11/1986  | 19:35 | 4/14/1986  | 6:25     | 58.83   | 4262 | INTERCEPT VALVE                                     |
| 521 | 168 | Oak Creek #6 | 000* | 60  | D1 | 4/14/1986  | 11:00 | 4/14/1986  | 14:10    | 3.16    | 340  | 61 & 63 MILL FUEL PMP PROBLEM                       |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 4/20/1986  | 4:00  | 4/20/1986  | 17:25    | 13.41   | 410  | OTHER BURNER PROBLEMS                               |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 5/5/1986   | 7:50  | 5/5/1986   | 10:00    | 2.16    | 3412 | FEEDPUMP STEAM TURBINE                              |

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|     |     |              |      |     |    |            |       |            |          |        |      |                                  |         |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|--------|------|----------------------------------|---------|
| 521 | 168 | Oak Creek #6 | 000* | 225 | PD | 5/6/1986   | 7:30  | 5/10/1986  | 1:00     | 89.5   | 9250 | LOW BTU TEST COAL                | OLD BEN |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D4 | 5/10/1986  | 5:00  | 5/10/1986  | 15:30    | 10.5   | 410  | 701                              |         |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 5/20/1986  | 10:35 | 5/20/1986  | 22:00    | 11.41  | 850  | 67 PULV COAL FDR                 |         |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 5/20/1986  | 22:20 | 5/22/1986  | 10:10    | 35.83  | 3440 | DRUM SAFETY VALVE                |         |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/5/1986   | 3:34  | 6/5/1986   | 4:34     | 1      | 4292 | HI PRESSURE HTR TUBE LEAKS       |         |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/11/1986  | 6:45  | 6/15/1986  | 2:55     | 92.16  | 1080 | HYDRAULIC SYSTEM FILTERS         |         |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/15/1986  | 2:55  | 6/20/1986  | 16:00    | 133.08 | 1005 | ECONOMIZER LEAK                  |         |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 6/26/1986  | 14:50 | 6/26/1986  | 17:50    | 3      | 1480 | WATER WALL LEAK                  |         |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 6/26/1986  | 17:50 | 6/27/1986  | 2:10     | 8.33   | 410  | ID FANS HIGH MOTOR TEMP          |         |
| 521 | 168 | Oak Creek #6 | 000* | 70  | D1 | 7/8/1986   | 14:00 | 7/8/1986   | 18:00    | 4      | 9270 | COTHER BURNER PROBLEMS           |         |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 7/16/1986  | 10:10 | 7/16/1986  | 23:45    | 13.58  | 410  | WET GREEN COAL                   |         |
| 521 | 168 | Oak Creek #6 | 000* | 218 | D1 | 7/24/1986  | 13:10 | 7/25/1986  | 21:00    | 31.83  | 410  | OTHER BURNER PROBLEMS            |         |
| 521 | 168 | Oak Creek #6 | 000* | 158 | D1 | 7/25/1986  | 21:00 | 7/27/1986  | 3:00     | 30     | 410  | OTHER BURNER PROBLEMS            |         |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 8/1/1986   | 22:45 | 8/4/1986   | 7:56     | 57.18  | 1590 | OTHER BURNER PROBLEMS            |         |
| 521 | 168 | Oak Creek #6 | 000* | 175 | D1 | 8/14/1986  | 3:45  | 8/14/1986  | 11:30    | 7.75   | 410  | STACK INSPECTION                 |         |
| 521 | 168 | Oak Creek #6 | 000* | 180 | PD | 8/16/1986  | 1:30  | 8/16/1986  | 19:30    | 18     | 260  | OTHR BURNER PROBS #68 PULV FDR   |         |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 8/17/1986  | 8:18  | 8/17/1986  | 16:25    | 8.11   | 4600 | PRIMARY AIR FAN                  |         |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 8/20/1986  | 23:05 | 8/31/1986  | 4:37     | 245.53 | 1005 | EXCITER MOTOR - L.S.             |         |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 9/1/1986   | 14:25 | 9/4/1986   | 15:00    | 72.58  | 260  | GENERATING TUBE                  |         |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 9/4/1986   | 15:00 | 9/9/1986   | 20:50    | 125.83 | 260  | #62 PRIMARY AIR FAN              |         |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 9/10/1986  | 10:30 | 9/12/1986  | 2:00     | 39.5   | 410  | #61 PRIMARY AIR FAN              |         |
| 521 | 168 | Oak Creek #6 | 000* | 60  | D1 | 9/15/1986  | 22:30 | 9/16/1986  | 10:50    | 12.33  | 340  | OTHER BURNER PROBLEMS            |         |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 9/16/1986  | 10:50 | 9/17/1986  | 2:00     | 15.16  | 340  | LOW COAL LEVELS,62-63 MILLS OUT  |         |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 9/21/1986  | 2:00  | 9/24/1986  | 9:00     | 79     | 9250 | LOW COAL LEVELS                  |         |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 9/24/1986  | 9:00  | 9/28/1986  | 16:00    | 103    | 9250 | LOW BTU COAL                     |         |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/30/1986  | 22:49 | 10/2/1986  | 5:42     | 30.88  | 1080 | LOW BTU COAL                     |         |
| 521 | 168 | Oak Creek #6 | *    | 170 | D1 | 10/11/1986 | 20:25 | 10/12/1986 | 10:00    | 13.58  | 3499 | ECONOMIZER LEAK                  |         |
| 521 | 168 | Oak Creek #6 | *    | 220 | D1 | 10/15/1986 | 10:30 | 10/16/1986 | 7:15     | 20.75  | 9250 | OTHER FEEDWATER SYSTEM           |         |
| 521 | 168 | Oak Creek #6 |      |     | MO | 10/25/1986 | 20:46 | 10/26/1986 | 4:43     | 7.95   | 220  | PROBLEMS                         |         |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 11/8/1986  | 7:38  | 11/8/1986  | 19:40    | 12.03  | 220  | LOW BTU COAL                     |         |
| 521 | 168 | Oak Creek #6 |      |     | MO | 11/13/1986 | 3:51  | 11/16/1986 | 7:55     | 76.06  | 570  | PULV SYS-CYCLONE SEPARATOR       |         |
| 521 | 168 | Oak Creek #6 | *    | 140 | D1 | 11/19/1986 | 12:20 | 11/20/1986 | 2:15     | 13.91  | 330  | PULVERIZER SYSTEM                |         |
| 521 | 168 | Oak Creek #6 | *    | 150 | D1 | 11/20/1986 | 9:45  | 11/21/1986 | 4:00     | 18.25  | 330  | REHEAT STEAM PROBLEM             |         |
| 521 | 168 | Oak Creek #6 | *    | 60  | D1 | 11/21/1986 | 4:00  | 11/24/1986 | 16:55    | 84.91  | 330  | PULVERIZER COAL LEAK             |         |
| 521 | 168 | Oak Creek #6 | *    | 175 | D1 | 12/2/1986  | 21:50 | 12/3/1986  | 4:30     | 6.66   | 3441 | PULVERIZER COAL LEAK             |         |
| 521 | 168 | Oak Creek #6 | *    | 175 | PD | 12/4/1986  | 2:00  | 12/4/1986  | 6:23     | 4.38   | 3441 | PULVERIZED COAL LEAK             |         |
| 521 | 168 | Oak Creek #6 |      |     | PO | 12/24/1986 | 23:38 | 12/31/1986 | 24:00:00 | 168.36 | 1800 | OTHER HP HEATER PROBLEMS         |         |
| 521 | 168 | Oak Creek #6 |      |     | PO | 1/1/1987   | 0:01  | 2/7/1987   | 10:23    | 898.36 | 1800 | OTHER HP HEATER PROBLEMS         |         |
| 521 | 168 | Oak Creek #6 | 000* | 175 | D3 | 2/9/1987   | 2:30  | 2/9/1987   | 9:45     | 7.25   | 260  | ANNUAL OUTAGE. OUTAGE            |         |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 2/9/1987   | 9:45  | 2/9/1987   | 23:00    | 13.25  | 3412 | CONTINUES INTO 1987.             |         |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 2/9/1987   | 23:00 | 2/10/1987  | 8:45     | 9.75   | 260  | ANNUAL OUTAGE. STARTED 12/24/86. |         |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 2/10/1987  | 8:45  | 2/11/1987  | 5:00     | 20.25  | 260  | SILICA-RETURNING TO SERV         |         |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 2/12/1987  | 17:30 | 2/13/1987  | 6:05     | 12.58  | 410  | STEAM FEEDWATER PUMP             |         |
|     |     |              |      |     |    |            |       |            |          |        |      | PA FAN                           |         |
|     |     |              |      |     |    |            |       |            |          |        |      | PRIMARY AIR FAN                  |         |
|     |     |              |      |     |    |            |       |            |          |        |      | OTHER BURNER PROBLEMS            |         |

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|     |     |              |      |     |    |           |       |           |       |        |      |                                 |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|---------------------------------|
| 521 | 168 | Oak Creek #6 |      |     | PO | 2/14/1987 | 21:13 | 2/14/1987 | 21:58 | 0.75   | 4460 | RESV SHUTDOWN-TURB OVRSPD TEST  |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 2/16/1987 | 6:30  | 2/16/1987 | 18:00 | 11.5   | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 2/17/1987 | 9:25  | 2/18/1987 | 18:00 | 32.58  | 9250 | LOW BTU COAL                    |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 2/19/1987 | 1:30  | 2/19/1987 | 11:00 | 9.5    | 3412 | STEAM FEEDWATER PUMP            |
| 521 | 168 | Oak Creek #6 | 000* | 50  | D1 | 2/19/1987 | 11:00 | 2/19/1987 | 13:30 | 2.5    | 310  | MILL PROBLEMS                   |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 2/19/1987 | 13:30 | 2/19/1987 | 17:00 | 3.5    | 3412 | STEAM GENERATOR PUMP            |
| 521 | 168 | Oak Creek #6 |      |     | MO | 2/20/1987 | 1:44  | 2/23/1987 | 6:15  | 76.51  | 4293 | CONTROL OIL LEAK AT STOP VV     |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 2/24/1987 | 18:05 | 2/24/1987 | 19:30 | 1.41   | 250  | PULVERIZER FDRS                 |
| 521 | 168 | Oak Creek #6 |      |     | U2 | 2/25/1987 | 0:01  | 3/2/1987  | 20:56 | 140.91 | 1090 | STEAM DRUM FEEDER TUBE          |
| 521 | 168 | Oak Creek #6 | 000* | 160 | D1 | 3/6/1987  | 20:20 | 3/6/1987  | 22:40 | 2.33   | 340  | LOW COAL LEVELS                 |
| 521 | 168 | Oak Creek #6 |      |     | PO | 3/8/1987  | 3:41  | 3/8/1987  | 8:57  | 5.26   | 4460 | TEST HS OVERSPEED STOP          |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 3/9/1987  | 8:50  | 3/9/1987  | 9:50  | 1      | 8560 | PRECIP PROBLEMS                 |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 4/8/1987  | 11:45 | 4/8/1987  | 17:00 | 5.25   | 1850 | SILICA                          |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 4/14/1987 | 18:42 | 4/18/1987 | 15:54 | 93.2   | 1040 | FIRST SUPERHEATER               |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 4/22/1987 | 15:15 | 4/22/1987 | 16:20 | 1.08   | 250  | PULVERIZER FDR                  |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 4/24/1987 | 10:48 | 4/24/1987 | 12:30 | 1.7    | 3414 | STEAM BLR FEED PMP              |
| 521 | 168 | Oak Creek #6 | 000* | 210 | PD | 4/24/1987 | 23:20 | 4/25/1987 | 6:30  | 7.16   | 260  | PRIMARY AIR FAN                 |
| 521 | 168 | Oak Creek #6 |      |     | NC | 5/10/1987 | 8:45  | 5/10/1987 | 15:15 | 6.5    | 260  | PRIMARY AIR FAN                 |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/11/1987 | 7:14  | 5/12/1987 | 8:40  | 25.43  | 1080 | ECON LEAK                       |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 5/14/1987 | 7:17  | 5/14/1987 | 7:55  | 0.63   | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 |      |     | NC | 5/16/1987 | 5:30  | 5/16/1987 | 11:00 | 5.5    | 260  | PRIMARY AIR FAN                 |
| 521 | 168 | Oak Creek #6 |      |     | NC | 5/16/1987 | 11:00 | 5/16/1987 | 14:00 | 3      | 260  | PRIMARY AIR FAN                 |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 5/18/1987 | 11:45 | 5/18/1987 | 13:00 | 1.25   | 340  | 66 PULV FUEL FDR                |
| 521 | 168 | Oak Creek #6 |      |     | NC | 5/31/1987 | 16:30 | 5/31/1987 | 19:45 | 3.25   | 260  | PRIMARY AIR FAN                 |
| 521 | 168 | Oak Creek #6 |      |     | NC | 6/2/1987  | 22:20 | 6/3/1987  | 6:00  | 7.66   | 1470 | 61 ID FAN INSP OF CPLG          |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 6/3/1987  | 15:43 | 6/3/1987  | 21:55 | 6.2    | 1480 | 61 ID FAN RHEOSTAT RPR          |
| 521 | 168 | Oak Creek #6 |      |     | NC | 6/6/1987  | 23:25 | 6/7/1987  | 6:50  | 7.41   | 260  | PRIMARY AIR FAN                 |
| 521 | 168 | Oak Creek #6 | 000* | 225 | PD | 6/9/1987  | 15:00 | 6/9/1987  | 17:00 | 2      | 260  | PA FAN #61                      |
| 521 | 168 | Oak Creek #6 |      |     | NC | 6/9/1987  | 17:00 | 6/10/1987 | 15:45 | 22.75  | 260  | PA FAN #61                      |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 6/10/1987 | 15:45 | 6/29/1987 | 14:16 | 454.51 | 880  | FLYASH HANDLING                 |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 7/2/1987  | 2:10  | 7/2/1987  | 6:30  | 4.33   | 880  | FLYASH HANDLING SYSTEM.         |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 7/7/1987  | 13:15 | 7/7/1987  | 16:00 | 2.75   | 9250 | LOW BTU COAL                    |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 7/13/1987 | 23:57 | 7/16/1987 | 0:43  | 48.76  | 1005 | GENERATING TUBES                |
| 521 | 168 | Oak Creek #6 |      |     | NC | 7/23/1987 | 22:00 | 7/24/1987 | 5:20  | 7.33   | 1480 | ID FAN PROBLEMS                 |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 7/27/1987 | 23:20 | 7/29/1987 | 3:43  | 28.38  | 1090 | DRUM FEEDER TUBE                |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 7/29/1987 | 18:34 | 7/31/1987 | 11:07 | 40.55  | 1090 | DRUM FEEDER TUBE                |
| 521 | 168 | Oak Creek #6 | 000* | 92  | D1 | 8/1/1987  | 11:50 | 8/1/1987  | 13:45 | 1.91   | 400  | #8 BURNER FIRE IN WINDBOX       |
| 521 | 168 | Oak Creek #6 | 000* | 166 | D1 | 8/1/1987  | 13:45 | 8/1/1987  | 23:00 | 9.25   | 400  | #8 BURNER PULV FUEL LEAKS       |
| 521 | 168 | Oak Creek #6 | 000* | 175 | D1 | 8/2/1987  | 13:00 | 8/3/1987  | 9:00  | 20     | 3440 | 4B FEEDWATER HEATER             |
| 521 | 168 | Oak Creek #6 | 000* | 125 | D1 | 8/6/1987  | 14:30 | 8/6/1987  | 17:25 | 2.91   | 310  | MILL PROBLEMS 62 MILL EXHAUSTER |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 8/10/1987 | 19:54 | 8/12/1987 | 8:07  | 36.21  | 400  | BURNER WINDBOX FIRES            |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 8/15/1987 | 12:00 | 8/16/1987 | 21:45 | 33.75  | 9250 | LOW BTU                         |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 8/17/1987 | 10:00 | 8/19/1987 | 22:50 | 60.83  | 410  | LEAK IN PULV FUEL PIPE          |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 8/19/1987 | 22:50 | 8/23/1987 | 3:00  | 76.16  | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 8/23/1987 | 3:00  | 8/23/1987 | 5:45  | 2.75   | 0    | Reserve Shutdown                |

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|     |     |              |      |     |    |            |       |            |       |         |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|---------|------|---------------------------------|
| 521 | 168 | Oak Creek #6 |      |     | NC | 8/24/1987  | 21:00 | 8/25/1987  | 6:55  | 9.91    | 3441 | OTHER HI PRESS HTR PROBLEMS     |
| 521 | 168 | Oak Creek #6 |      |     | NC | 8/25/1987  | 22:20 | 8/26/1987  | 6:00  | 7.66    | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 |      |     | NC | 8/29/1987  | 6:05  | 8/29/1987  | 14:06 | 8.01    | 260  | PRIMARY AIR FAN                 |
| 521 | 168 | Oak Creek #6 |      |     | NC | 9/2/1987   | 22:30 | 9/3/1987   | 7:05  | 8.58    | 260  | PA FAN.                         |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 9/5/1987   | 10:15 | 9/5/1987   | 11:30 | 1.25    | 9630 | OPACITY PROBLEMS.               |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 9/5/1987   | 11:30 | 9/5/1987   | 17:10 | 5.66    | 1455 | ID FAN MOTOR.                   |
| 521 | 168 | Oak Creek #6 |      |     | NC | 9/9/1987   | 23:15 | 9/10/1987  | 2:27  | 3.2     | 1455 | ID FAN.                         |
| 521 | 168 | Oak Creek #6 | 000* | 185 | D1 | 9/17/1987  | 15:30 | 9/17/1987  | 20:00 | 4.5     | 410  | BURNER PROBLEMS.                |
| 521 | 168 | Oak Creek #6 |      |     | NC | 9/19/1987  | 22:30 | 9/20/1987  | 7:45  | 9.25    | 1400 | FD FANS.                        |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 9/25/1987  | 22:52 | 9/28/1987  | 2:53  | 52.01   | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 9/28/1987  | 9:55  | 9/28/1987  | 21:00 | 11.08   | 1850 | HIGH SILICA.                    |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 10/11/1987 | 18:55 | 10/11/1987 | 20:55 | 2       | 250  | 68 PULV FUEL FDR OUT OF SERVICE |
| 521 | 168 | Oak Creek #6 |      |     | U1 | 10/26/1987 | 17:18 | 10/30/1987 | 23:00 | 101.7   | 1005 | GENERATING TUBE                 |
| 521 | 168 | Oak Creek #6 |      |     | U2 | 10/30/1987 | 23:01 | 11/2/1987  | 10:10 | 59.15   | 880  | FLYASH SILO                     |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 12/9/1987  | 6:45  | 12/14/1987 | 16:45 | 130     | 3662 | 4160V CONDUCTOR FAILURE         |
| 521 | 168 | Oak Creek #6 | 000* | 215 | D1 | 12/19/1987 | 8:00  | 12/20/1987 | 3:00  | 19      | 410  | OTHER BURNER PROB(PLUGGED FDR)  |
| 521 | 168 | Oak Creek #6 | 000* | 100 | D1 | 1/5/1988   | 13:15 | 1/6/1988   | 0:01  | 10.76   | 1120 | ASH FOULING APPETURE            |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 1/6/1988   | 0:01  | 1/6/1988   | 14:10 | 14.15   | 1120 | ASH FOULING APPETURE            |
| 521 | 168 | Oak Creek #6 |      |     | MO | 1/12/1988  | 22:00 | 1/15/1988  | 12:00 | 62      | 1120 | ASH FOULING APPETURE            |
| 521 | 168 | Oak Creek #6 |      |     | MO | 1/15/1988  | 12:00 | 1/18/1988  | 1:00  | 61      | 1070 | SIDE & REAR WALL REHEAT LEAKS   |
| 521 | 168 | Oak Creek #6 | 000* | 185 | D1 | 1/22/1988  | 7:27  | 1/22/1988  | 11:05 | 3.63    | 260  | 61 PA FAN MOTOR                 |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 2/9/1988   | 17:30 | 2/9/1988   | 21:45 | 4.25    | 9250 | LOW BTU COAL                    |
| 521 | 168 | Oak Creek #6 | 000* | 185 | D1 | 2/11/1988  | 11:08 | 2/11/1988  | 11:58 | 0.83    | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 |      |     | RS | 2/19/1988  | 20:55 | 2/22/1988  | 3:18  | 54.38   | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 |      |     | U2 | 2/23/1988  | 14:25 | 2/25/1988  | 3:33  | 37.13   | 1005 | WATER TUBE LEAK                 |
| 521 | 168 | Oak Creek #6 |      |     | NC | 3/1/1988   | 8:20  | 3/1/1988   | 12:15 | 3.91    | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 3/14/1988  | 8:05  | 3/14/1988  | 20:20 | 12.25   | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 3/15/1988  | 13:30 | 3/16/1988  | 1:55  | 12.41   | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 3/16/1988  | 18:20 | 3/17/1988  | 4:30  | 10.16   | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 3/17/1988  | 4:30  | 3/18/1988  | 21:45 | 41.25   | 3662 | 4160V CONDUCTOR FAILURE         |
| 521 | 168 | Oak Creek #6 |      |     | U2 | 3/20/1988  | 20:16 | 3/24/1988  | 12:41 | 88.41   | 1005 | GENERATING TUBE FAILURE         |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 4/5/1988   | 7:10  | 4/7/1988   | 11:25 | 52.25   | 1005 | GENERATING TUBE FAILURE         |
| 521 | 168 | Oak Creek #6 | *    |     | SF | 4/7/1988   | 11:25 | 4/8/1988   | 0:29  | 13.06   | 4299 | OTHER HYDRAULIC SYS PROBLEMS    |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 4/18/1988  | 6:45  | 4/18/1988  | 7:20  | 0.58    | 1005 | GENERATING TUBE LEAK            |
| 521 | 168 | Oak Creek #6 | *    |     | U3 | 4/19/1988  | 17:18 | 4/22/1988  | 16:00 | 70.69   | 1080 | ECONOMIZER TUBE LEAK            |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 4/22/1988  | 16:00 | 4/24/1988  | 18:09 | 50.15   | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 5/12/1988  | 10:51 | 7/8/1988   | 22:32 | 1379.68 | 4400 | ANNUAL OUTAGE                   |
| 521 | 168 | Oak Creek #6 | *    | 125 | D1 | 7/13/1988  | 11:30 | 7/14/1988  | 23:50 | 36.33   | 1410 | FORCE DRAFT FAN MOTOR           |
| 521 | 168 | Oak Creek #6 | *    | 192 | D1 | 7/16/1988  | 9:00  | 7/16/1988  | 21:40 | 12.66   | 1850 | HIGH SILICA                     |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 7/17/1988  | 1:40  | 7/17/1988  | 2:31  | 0.85    | 4460 | OVERSPEED TRIP TEST             |
| 521 | 168 | Oak Creek #6 | *    | 210 | D1 | 7/26/1988  | 10:10 | 7/26/1988  | 16:45 | 6.58    | 1850 | HIGH SILICA                     |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 7/30/1988  | 0:08  | 7/30/1988  | 3:02  | 2.9     | 4301 | TURB GOVERNING SYSTEM           |
| 521 | 168 | Oak Creek #6 | *    | 220 | D1 | 7/30/1988  | 10:30 | 7/30/1988  | 19:30 | 9       | 1850 | HIGH SILICA                     |
| 521 | 168 | Oak Creek #6 | *    | 115 | D1 | 8/3/1988   | 11:40 | 8/3/1988   | 22:15 | 10.58   | 1410 | FORCE DRAFT FAN MOTOR           |
| 521 | 168 | Oak Creek #6 | *    | 230 | D1 | 8/4/1988   | 11:03 | 8/5/1988   | 0:01  | 12.96   | 310  | PULVERIZER MILLS                |

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|     |     |              |      |     |    |            |       |            |       |        |      |                               |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|-------------------------------|
| 521 | 168 | Oak Creek #6 |      |     | MO | 8/11/1988  | 2:03  | 8/14/1988  | 12:40 | 82.61  | 4260 | REMOVE STEAM STRAINER SCREENS |
| 521 | 168 | Oak Creek #6 |      |     | SF | 8/14/1988  | 12:40 | 8/16/1988  | 11:30 | 46.83  | 1005 | WTR TUBE LEAK                 |
| 521 | 168 | Oak Creek #6 |      |     | SF | 8/16/1988  | 11:30 | 8/17/1988  | 4:27  | 16.95  | 4301 | TURB GOVERNOR SYSTEM          |
| 521 | 168 | Oak Creek #6 | *    | 186 | D1 | 9/12/1988  | 18:45 | 9/12/1988  | 22:30 | 3.75   | 250  | PULVERIZER FEEDERS            |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/2/1988  | 7:30  | 10/2/1988  | 14:00 | 6.5    | 3441 | B SET HIGH PRESSURE HEATERS   |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 10/15/1988 | 4:44  | 10/15/1988 | 14:30 | 9.76   | 775  | ECONOMIZER PIPING             |
| 521 | 168 | Oak Creek #6 | *    |     | SF | 10/15/1988 | 14:30 | 10/16/1988 | 19:10 | 28.66  | 4611 | HYDROGEN COOLERS              |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 10/18/1988 | 4:53  | 10/20/1988 | 1:48  | 44.91  | 1090 | DRUM FEEDER TUBE              |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 10/24/1988 | 5:05  | 10/28/1988 | 2:11  | 93.1   | 1090 | DRUM FEEDER TUBE              |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 11/1/1988  | 19:15 | 11/1/1988  | 20:30 | 1.25   | 250  | PULVERIZED FEEDERS            |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 11/4/1988  | 14:10 | 11/4/1988  | 16:15 | 2.08   | 310  | MILL PROBLEM                  |
| 521 | 168 | Oak Creek #6 |      |     | NC | 11/6/1988  | 6:30  | 11/6/1988  | 10:45 | 4.25   | 3441 | B-SET HIGH PRESSURE HTRS      |
| 521 | 168 | Oak Creek #6 |      |     | NC | 11/13/1988 | 7:00  | 11/13/1988 | 18:00 | 11     | 3441 | A-SET HIGH PRESSURE HTRS      |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 11/26/1988 | 18:14 | 12/1/1988  | 13:35 | 139.35 | 1050 | SECOND SUPER HTR TUBE FAILURE |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 12/6/1988  | 8:00  | 12/9/1988  | 23:39 | 87.65  | 400  | BURNER WIND BOX FIRE          |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 12/9/1988  | 23:39 | 12/11/1988 | 23:50 | 48.18  | 400  | BURNER WINDBOX FIRE           |
| 521 | 168 | Oak Creek #6 |      |     | NC | 1/20/1989  | 18:45 | 1/22/1989  | 9:00  | 38.25  | 3441 | 65B FEED WATER HTR HEAD LEAK  |
| 521 | 168 | Oak Creek #6 |      |     | NC | 2/12/1989  | 7:30  | 2/12/1989  | 18:17 | 10.78  | 3441 | 6A HTR DRAIN PIPE LEAK        |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 2/12/1989  | 18:17 | 2/13/1989  | 10:41 | 16.4   | 3441 | HI PRESS HTR DRAIN VALVING    |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 2/17/1989  | 19:58 | 2/20/1989  | 6:15  | 58.28  | 1005 | GENERATING TUBE FAILURE       |
| 521 | 168 | Oak Creek #6 | *    |     | SF | 2/20/1989  | 6:15  | 2/20/1989  | 12:45 | 6.5    | 799  | OTHER PIPING SYS PROBLEMS     |
| 521 | 168 | Oak Creek #6 | *    | 220 | D1 | 2/21/1989  | 7:30  | 2/21/1989  | 18:20 | 10.83  | 1850 | HIGH BOILER SILICA            |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 2/23/1989  | 16:34 | 2/23/1989  | 21:30 | 4.93   | 4301 | TURB VALVE CONTROL            |
| 521 | 168 | Oak Creek #6 | *    |     | SF | 2/23/1989  | 21:30 | 2/24/1989  | 7:30  | 10     | 1005 | GENERATING TUBE FAILURE       |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 2/24/1989  | 7:30  | 3/3/1989   | 12:13 | 172.71 | 1800 | PLANNED OUTAGE                |
| 521 | 168 | Oak Creek #6 | *    | 185 | D1 | 3/15/1989  | 20:30 | 3/15/1989  | 23:00 | 2.5    | 250  | PULV COAL FEEDERS             |
| 521 | 168 | Oak Creek #6 | *    | 220 | D1 | 3/16/1989  | 15:20 | 3/16/1989  | 23:30 | 8.16   | 250  | PULVERIZED COAL FEEDERS       |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 3/17/1989  | 21:54 | 3/19/1989  | 16:13 | 42.31  | 1070 | SECOND REHEATER               |
| 521 | 168 | Oak Creek #6 | *    | 195 | D1 | 3/20/1989  | 16:45 | 3/20/1989  | 23:00 | 6.25   | 1850 | HIGH BOILER SILICA            |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 3/31/1989  | 9:10  | 4/3/1989   | 8:08  | 70.96  | 1005 | GENERATING TUBE               |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 5/5/1989   | 17:29 | 5/7/1989   | 8:42  | 39.21  | 1510 | FLUE GAS DUCT                 |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 5/7/1989   | 13:34 | 5/10/1989  | 9:57  | 68.38  | 1040 | PRIMARY SUPERHEATER           |
| 521 | 168 | Oak Creek #6 | *    |     | SF | 5/10/1989  | 9:57  | 5/13/1989  | 20:40 | 82.71  | 1040 | PRIMARY SUPERHEATER           |
| 521 | 168 | Oak Creek #6 | *    | 200 | D1 | 5/15/1989  | 7:00  | 5/17/1989  | 3:00  | 44     | 1999 | BOILER CONDITIONS             |
| 521 | 168 | Oak Creek #6 | *    | 235 | D1 | 5/24/1989  | 13:30 | 5/25/1989  | 2:35  | 13.08  | 1999 | BOILER CONDITIONS             |
| 521 | 168 | Oak Creek #6 | *    | 215 | D1 | 5/30/1989  | 15:30 | 5/31/1989  | 1:00  | 9.5    | 1799 | OTHER CONTROL PROBLEMS        |
| 521 | 168 | Oak Creek #6 | *    | 220 | D1 | 5/31/1989  | 6:30  | 5/31/1989  | 7:55  | 1.41   | 250  | PULVERIZED COAL FDRS          |
| 521 | 168 | Oak Creek #6 | *    | 220 | D1 | 5/31/1989  | 8:30  | 6/1/1989   | 2:30  | 18     | 250  | PULVERIZED COAL FDR           |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 6/4/1989   | 19:34 | 6/8/1989   | 10:06 | 86.53  | 1005 | GENERATING TUBE FAILURE       |
| 521 | 168 | Oak Creek #6 | *    | 80  | D1 | 6/14/1989  | 9:11  | 6/14/1989  | 11:45 | 2.56   | 340  | OTHER MILL PROBLEMS           |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 6/26/1989  | 8:26  | 6/29/1989  | 14:17 | 77.85  | 1005 | GENERATING TUBE FAILURE       |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 6/29/1989  | 14:17 | 7/4/1989   | 22:11 | 127.9  | 0    | Reserve Shutdown              |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 7/5/1989   | 3:55  | 7/5/1989   | 4:43  | 0.8    | 4302 | TURBINE THROTTLE TRIP         |
| 521 | 168 | Oak Creek #6 | *    | 220 | D1 | 7/6/1989   | 15:00 | 7/8/1989   | 5:00  | 38     | 1999 | BOILER CONDITIONS             |
| 521 | 168 | Oak Creek #6 | *    | 140 | D3 | 7/8/1989   | 5:00  | 7/8/1989   | 18:30 | 13.5   | 3420 | FEEDWATER PIPING              |
| 521 | 168 | Oak Creek #6 |      |     | NC | 8/6/1989   | 2:00  | 8/6/1989   | 13:00 | 11     | 3441 | OTHER HP HTR PROBLEMS         |

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|     |     |              |   |     |    |           |       |            |          |         |      |                              |
|-----|-----|--------------|---|-----|----|-----------|-------|------------|----------|---------|------|------------------------------|
| 521 | 168 | Oak Creek #6 |   |     | NC | 8/9/1989  | 16:40 | 8/9/1989   | 17:00    | 0.33    | 250  | 62 PULV FUEL FDR SHEER PIN   |
| 521 | 168 | Oak Creek #6 | * | 190 | D1 | 9/5/1989  | 13:58 | 9/5/1989   | 17:40    | 3.7     | 250  | PULVERIZER FEEDER            |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 9/6/1989  | 13:11 | 9/6/1989   | 16:43    | 3.53    | 9910 | MAINTENENACE ERROR           |
| 521 | 168 | Oak Creek #6 | * |     | SF | 9/6/1989  | 16:43 | 9/6/1989   | 19:12    | 2.48    | 3149 | LOSS OF VACUUM               |
| 521 | 168 | Oak Creek #6 | * | 190 | D1 | 9/8/1989  | 11:00 | 9/8/1989   | 21:34    | 10.56   | 1050 | SECOND SUPERHEAT             |
| 521 | 168 | Oak Creek #6 | * |     | MO | 9/8/1989  | 21:34 | 9/11/1989  | 7:23     | 57.81   | 1050 | SECOND SUPERHEAT             |
| 521 | 168 | Oak Creek #6 | * | 175 | D1 | 9/12/1989 | 7:00  | 9/13/1989  | 19:37    | 36.61   | 1040 | FIRST SUPERHEATER            |
| 521 | 168 | Oak Creek #6 | * |     | PO | 9/13/1989 | 19:37 | 12/31/1989 | 24:00:00 | 2644.38 | 1800 | PLANNED MAINTENANCE OUTAGE   |
|     |     |              |   |     |    |           |       |            |          |         |      | PLANNED MAINT.OUTAGE STARTED |
| 521 | 168 | Oak Creek #6 | * |     | PO | 1/1/1990  | 0:01  | 4/9/1990   | 7:40     | 2359.64 | 1800 | 9/13/89                      |
| 521 | 168 | Oak Creek #6 | * | 160 | PD | 4/9/1990  | 8:36  | 4/13/1990  | 2:16     | 89.66   | 1710 | COMBUSTION CONTROLS TESTING  |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 4/13/1990 | 2:16  | 4/13/1990  | 3:01     | 0.75    | 4309 | TURBINE CONTROLS             |
| 521 | 168 | Oak Creek #6 | * | 160 | PD | 4/13/1990 | 3:01  | 4/15/1990  | 22:15    | 67.23   | 1710 | COMBUSTION CONTROLS TESTING  |
| 521 | 168 | Oak Creek #6 | * | 80  | D1 | 4/15/1990 | 22:15 | 4/17/1990  | 8:00     | 33.75   | 340  | COMBUSTION CONTROLS          |
| 521 | 168 | Oak Creek #6 | * | 160 | PD | 4/17/1990 | 8:00  | 4/18/1990  | 17:00    | 33      | 1710 | COMBUSTION CONTROLS TESTING  |
| 521 | 168 | Oak Creek #6 | * | 210 | PD | 4/18/1990 | 13:00 | 4/23/1990  | 7:00     | 114     | 1710 | COMBUSTION CONTROLS TESTING  |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 4/25/1990 | 1:26  | 4/25/1990  | 2:26     | 1       | 1710 | COMBUSTION CONTROLS          |
| 521 | 168 | Oak Creek #6 | * |     | SF | 4/25/1990 | 2:26  | 4/25/1990  | 5:40     | 3.23    | 4810 | GENERATOR OUTPUT BREAKER     |
| 521 | 168 | Oak Creek #6 | * |     | SF | 4/25/1990 | 6:00  | 4/25/1990  | 8:00     | 2       | 1700 | FEEDWATER CONTROLS           |
| 521 | 168 | Oak Creek #6 | * |     | SF | 4/25/1990 | 8:00  | 4/25/1990  | 13:19    | 5.31    | 4810 | GENERATOR OUTPUT BREAKER     |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 4/27/1990 | 21:08 | 4/28/1990  | 2:30     | 5.36    | 1480 | #61 & #62 ID FAN TRIPPED     |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 4/28/1990 | 2:30  | 4/28/1990  | 6:00     | 3.5     | 1480 | OTHER ID FAN PROBLEMS        |
| 521 | 168 | Oak Creek #6 | * |     | MO | 4/30/1990 | 23:49 | 5/4/1990   | 12:22    | 84.55   | 8600 | SO3 INJECTION SYSTEM         |
| 521 | 168 | Oak Creek #6 | * | 160 | PD | 5/7/1990  | 8:30  | 5/7/1990   | 15:30    | 7       | 1710 | COMBUSTION CONTROL TESTING   |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 5/7/1990  | 16:07 | 5/7/1990   | 16:59    | 0.86    | 1710 | COMBUSTION CONTROL DROP      |
| 521 | 168 | Oak Creek #6 | * |     | MO | 5/8/1990  | 23:26 | 5/9/1990   | 11:05    | 11.65   | 3190 | REPAIR LP HOOD RUPTURE DISCS |
| 521 | 168 | Oak Creek #6 | * | 220 | D1 | 5/13/1990 | 18:55 | 5/15/1990  | 0:59     | 30.06   | 350  | PULV FUEL & AIR PIPING       |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 5/15/1990 | 0:59  | 5/15/1990  | 3:32     | 2.55    | 4261 | TURB CONTROL VALVES          |
| 521 | 168 | Oak Creek #6 | * |     | SF | 5/15/1990 | 3:43  | 5/15/1990  | 7:04     | 3.35    | 1710 | COMBUSTION CONTROLS          |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 5/18/1990 | 15:35 | 5/18/1990  | 16:44    | 1.15    | 9910 | MAINTENANCE ERROR            |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 5/19/1990 | 6:35  | 5/19/1990  | 8:11     | 1.6     | 1710 | COMBUSTION CONTROLS          |
| 521 | 168 | Oak Creek #6 | * |     | U2 | 5/19/1990 | 11:48 | 5/21/1990  | 10:42    | 46.9    | 1040 | FIRST SUPERHEATER            |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 5/23/1990 | 19:54 | 5/23/1990  | 20:52    | 0.96    | 1710 | COMBUSTION CONTROLS          |
| 521 | 168 | Oak Creek #6 | * |     | SF | 5/23/1990 | 20:52 | 5/23/1990  | 21:47    | 0.91    | 9900 | OPERATOR ERROR               |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 5/24/1990 | 13:50 | 5/24/1990  | 17:23    | 3.55    | 1710 | COMBUSTION CONTROLS          |
| 521 | 168 | Oak Creek #6 | * | 80  | D1 | 5/26/1990 | 10:50 | 5/26/1990  | 14:45    | 3.91    | 1470 | ID FAN #2 TRIPPED            |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 6/1/1990  | 23:56 | 6/2/1990   | 2:15     | 2.31    | 1710 | COMBUSTION CONTROLS          |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 6/5/1990  | 21:22 | 6/10/1990  | 6:00     | 104.63  | 1050 | SUPERHEATER SECOND           |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 6/10/1990 | 20:57 | 6/10/1990  | 22:12    | 1.25    | 1480 | #62 & #61 FANS TRIPPED       |
| 521 | 168 | Oak Creek #6 | * |     | MO | 6/16/1990 | 2:24  | 6/25/1990  | 7:00     | 220.6   | 1340 | BOILER TUBE MODIFICATIONS    |
| 521 | 168 | Oak Creek #6 | * |     | MO | 6/25/1990 | 7:00  | 6/25/1990  | 18:23    | 11.38   | 1710 | COMBUSTION CONTROLS          |
| 521 | 168 | Oak Creek #6 | * | 210 | D1 | 6/29/1990 | 13:15 | 6/29/1990  | 23:59    | 10.73   | 9270 | WET COAL                     |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 6/30/1990 | 0:18  | 6/30/1990  | 2:20     | 2.03    | 1710 | COMBUSTION CONTROLS          |
| 521 | 168 | Oak Creek #6 | * | 225 | D1 | 7/3/1990  | 12:55 | 7/3/1990   | 18:30    | 5.58    | 1710 | COMBUSTION CONTROLS          |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 7/3/1990  | 18:30 | 7/3/1990   | 19:25    | 0.91    | 1470 | #62 ID FAN                   |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 7/3/1990  | 19:53 | 7/3/1990   | 20:18    | 0.41    | 1710 | COMBUSTION CONTROLS          |

|     |     |              |   |     |    |           |       |           |       |       |      |                                 |
|-----|-----|--------------|---|-----|----|-----------|-------|-----------|-------|-------|------|---------------------------------|
| 521 | 168 | Oak Creek #6 | * |     | U1 | 7/3/1990  | 22:54 | 7/3/1990  | 23:47 | 0.88  | 1710 | COMBUSTION CONTROLS             |
| 521 | 168 | Oak Creek #6 | * |     | SF | 7/3/1990  | 23:47 | 7/4/1990  | 3:40  | 3.88  | 3430 | START-UP FAILURE                |
| 521 | 168 | Oak Creek #6 | * | 225 | D1 | 7/4/1990  | 3:40  | 7/5/1990  | 2:45  | 23.08 | 1710 | COMBUSTION CONTROLS             |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 7/5/1990  | 2:45  | 7/5/1990  | 3:18  | 0.55  | 1700 | FEEDWATER CONTROLS              |
| 521 | 168 | Oak Creek #6 | * |     | U2 | 7/5/1990  | 14:04 | 7/6/1990  | 7:30  | 17.43 | 4299 | OTHER HYDRAULIC SYS PROBLEMS    |
| 521 | 168 | Oak Creek #6 | * |     | RS | 7/6/1990  | 7:30  | 7/9/1990  | 4:44  | 69.23 | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 |   |     | NC | 7/28/1990 | 4:45  | 7/28/1990 | 11:45 | 7     | 3660 | 61/62 ID FANS                   |
| 521 | 168 | Oak Creek #6 |   |     | NC | 7/28/1990 | 14:45 | 7/28/1990 | 23:30 | 8.75  | 310  | PULVERIZER MILL PROBLEM         |
| 521 | 168 | Oak Creek #6 | * | 100 | D1 | 8/9/1990  | 7:20  | 8/9/1990  | 15:40 | 8.33  | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | * | 200 | D1 | 8/9/1990  | 15:40 | 8/10/1990 | 15:00 | 23.33 | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | * | 225 | D1 | 8/10/1990 | 15:00 | 8/10/1990 | 22:46 | 7.76  | 410  | OTHER BURNER PROBLEMS           |
| 521 | 168 | Oak Creek #6 | * |     | RS | 8/10/1990 | 22:46 | 8/11/1990 | 17:00 | 18.23 | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | * |     | RS | 8/11/1990 | 17:00 | 8/12/1990 | 20:16 | 27.26 | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 8/15/1990 | 3:32  | 8/15/1990 | 4:21  | 0.81  | 1710 | COMBUSTION CONTROLS             |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 8/16/1990 | 6:35  | 8/16/1990 | 8:27  | 1.86  | 1470 | 62 ID FAN TRIP                  |
| 521 | 168 | Oak Creek #6 |   |     | NC | 8/17/1990 | 4:21  | 8/17/1990 | 6:44  | 2.38  | 1475 | 62 ID FAN CONTROLS              |
| 521 | 168 | Oak Creek #6 | * | 132 | D1 | 8/17/1990 | 17:30 | 8/18/1990 | 19:50 | 26.33 | 250  | 63 MILL FEEDER BELT             |
| 521 | 168 | Oak Creek #6 |   |     | NC | 8/20/1990 | 15:30 | 8/21/1990 | 7:00  | 15.5  | 200  | 63 MILL EXH FAN VIB             |
| 521 | 168 | Oak Creek #6 |   |     | NC | 8/24/1990 | 22:17 | 8/26/1990 | 12:45 | 38.46 | 200  | 61 MILL-REPLACE "A" EXH FAN     |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 8/26/1990 | 12:45 | 8/26/1990 | 14:11 | 1.43  | 1470 | 61 ID FAN TRIP                  |
| 521 | 168 | Oak Creek #6 | * |     | SF | 8/26/1990 | 14:11 | 8/26/1990 | 15:26 | 1.25  | 9900 | START UP FAILURE                |
| 521 | 168 | Oak Creek #6 |   |     | NC | 8/26/1990 | 15:26 | 8/27/1990 | 8:30  | 17.06 | 200  | 61 MILL-REPLACE "A" EXH FAN     |
| 521 | 168 | Oak Creek #6 | * | 165 | D2 | 8/31/1990 | 9:45  | 8/31/1990 | 22:14 | 12.48 | 310  | MILL PROBLEM                    |
| 521 | 168 | Oak Creek #6 | * |     | RS | 8/31/1990 | 22:14 | 9/3/1990  | 12:00 | 61.76 | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | * |     | MO | 9/3/1990  | 12:00 | 9/4/1990  | 8:41  | 20.68 | 3131 | AIR EJECTOR PIPING & VLVS       |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 9/4/1990  | 15:43 | 9/4/1990  | 16:43 | 1     | 1700 | FEEDWATER CONTROLS              |
| 521 | 168 | Oak Creek #6 | * |     | SF | 9/4/1990  | 16:43 | 9/4/1990  | 20:52 | 4.15  | 380  | LIGHT-OFF SYSTEMS               |
| 521 | 168 | Oak Creek #6 |   |     | NC | 9/5/1990  | 21:00 | 9/6/1990  | 4:00  | 7     | 3441 | OTHER HP HTR PROBLEM            |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 9/7/1990  | 3:50  | 9/7/1990  | 4:36  | 0.76  | 1710 | COMBUSTION CONTROLS             |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 9/7/1990  | 15:25 | 9/7/1990  | 15:56 | 0.51  | 3250 | CIRC WTR STEM INSTRUMNTS & CTRL |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 9/7/1990  | 21:22 | 9/7/1990  | 21:49 | 0.45  | 1710 | COMBUSTION CONTROLS             |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 9/8/1990  | 2:49  | 9/8/1990  | 4:26  | 1.61  | 1710 | COMBUSTION CONTROLS             |
| 521 | 168 | Oak Creek #6 | * | 140 | D1 | 9/8/1990  | 14:00 | 9/10/1990 | 8:38  | 42.63 | 3440 | FEEDWATER HTR TUBE LEAK         |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 9/10/1990 | 11:39 | 9/10/1990 | 12:19 | 0.66  | 3849 | OTHER SERVICE AIR PROBLEMS      |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 9/10/1990 | 22:54 | 9/10/1990 | 23:20 | 0.43  | 1710 | COMBUSTION CONTROLS             |
| 521 | 168 | Oak Creek #6 | * | 140 | D2 | 9/12/1990 | 22:30 | 9/14/1990 | 4:04  | 29.56 | 3440 | FDWTR HTR TUBE LEAK             |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 9/14/1990 | 4:04  | 9/14/1990 | 4:47  | 0.71  | 1475 | 62 ID FAN CONTROLS              |
| 521 | 168 | Oak Creek #6 | * | 140 | D2 | 9/14/1990 | 4:47  | 9/15/1990 | 16:30 | 35.71 | 3440 | HI PRESSURE HTR TUBE LEAK       |
| 521 | 168 | Oak Creek #6 |   |     | NC | 9/16/1990 | 4:45  | 9/16/1990 | 19:20 | 14.58 | 340  | OTHER PULV PROBLEMS             |
| 521 | 168 | Oak Creek #6 | * | 225 | D1 | 9/21/1990 | 10:30 | 9/21/1990 | 19:00 | 8.5   | 250  | PULVERIZER FEEDER               |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 9/22/1990 | 21:54 | 9/22/1990 | 23:00 | 1.1   | 1480 | OTHER ID FAN PROBLEMS           |
| 521 | 168 | Oak Creek #6 | * |     | SF | 9/22/1990 | 23:00 | 9/23/1990 | 6:25  | 7.41  | 4309 | OTHER TURB INSTRU & CTRL PROBLM |
| 521 | 168 | Oak Creek #6 | * | 80  | D1 | 9/24/1990 | 7:03  | 9/24/1990 | 9:30  | 2.45  | 1475 | 62 ID FAN CONTROLS              |
| 521 | 168 | Oak Creek #6 |   |     | NC | 9/24/1990 | 22:45 | 9/25/1990 | 6:55  | 8.16  | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 |   |     | NC | 9/25/1990 | 23:45 | 9/26/1990 | 5:15  | 5.5   | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 |   |     | NC | 9/28/1990 | 21:50 | 9/29/1990 | 5:20  | 7.5   | 350  | PULVERIZER FUEL & AIR PIPING    |

|     |     |              |      |     |    |            |       |            |          |        |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|--------|------|---------------------------------|
| 521 | 168 | Oak Creek #6 |      |     | NC | 9/29/1990  | 5:20  | 9/29/1990  | 11:45    | 6.41   | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 |      |     | NC | 9/29/1990  | 11:45 | 9/30/1990  | 6:00     | 18.25  | 350  | PULVERIZER FUEL & AIR PIPING    |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/1/1990  | 19:51 | 10/1/1990  | 22:45    | 2.9    | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 | *    |     | SF | 10/1/1990  | 22:45 | 10/4/1990  | 5:06     | 54.35  | 4410 | LP TURBINE TURNING GEAR & MTR   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/4/1990  | 6:32  | 10/4/1990  | 7:31     | 0.98   | 9900 | OPERATOR ERROR                  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/4/1990  | 18:53 | 10/4/1990  | 20:21    | 1.46   | 1475 | #61 ID FAN CONTROLS             |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/4/1990  | 22:58 | 10/4/1990  | 23:34    | 0.6    | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/5/1990  | 6:15  | 10/5/1990  | 7:56     | 1.68   | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 | 000* | 105 | D1 | 10/5/1990  | 7:56  | 10/5/1990  | 13:05    | 5.15   | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/5/1990  | 20:30 | 10/6/1990  | 5:30     | 9      | 350  | PULVERIZER FUEL & AIR PIPING    |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/6/1990  | 5:30  | 10/6/1990  | 8:24     | 2.9    | 3412 | FEEDWATER PUMP STEAM TURBINE    |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/6/1990  | 8:24  | 10/6/1990  | 9:12     | 0.8    | 338  | PULVERIZER CONTROL SYSTEMS      |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/6/1990  | 9:12  | 10/6/1990  | 10:53    | 1.68   | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/6/1990  | 10:53 | 10/6/1990  | 12:06    | 1.21   | 4309 | CONTROL VALVE PROBLEM           |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/6/1990  | 12:06 | 10/6/1990  | 14:55    | 2.81   | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/6/1990  | 14:55 | 10/6/1990  | 15:52    | 0.95   | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/6/1990  | 15:52 | 10/7/1990  | 5:00     | 13.13  | 3412 | FEEDWATER PUMP STEAM TURBINE    |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/7/1990  | 10:30 | 10/7/1990  | 14:50    | 4.33   | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/8/1990  | 6:32  | 10/8/1990  | 7:04     | 0.53   | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/8/1990  | 11:25 | 10/8/1990  | 12:00    | 0.58   | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 10/9/1990  | 8:00  | 10/9/1990  | 13:00    | 5      | 3112 | CONDENSER TUBE FOULING          |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/11/1990 | 0:55  | 10/11/1990 | 4:35     | 3.66   | 1475 | ID FAN CONTROLS                 |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/11/1990 | 12:20 | 10/11/1990 | 14:20    | 2      | 4299 | OTHER HYDRAULIC SYS PROBLEMS    |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/13/1990 | 7:35  | 10/13/1990 | 8:09     | 0.56   | 1710 | COMBUSTION/STEAM CONDITION CTRL |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/13/1990 | 20:20 | 10/14/1990 | 8:15     | 11.91  | 3441 | OTHER HTR PROBLEMS              |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/19/1990 | 19:00 | 10/19/1990 | 20:53    | 1.88   | 3441 | OTHER HTR PROBLEMS              |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/19/1990 | 20:53 | 10/19/1990 | 21:37    | 0.73   | 1710 | COMBUSTION CONTROLS             |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/19/1990 | 21:37 | 10/22/1990 | 6:30     | 56.88  | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D3 | 10/22/1990 | 6:30  | 10/24/1990 | 12:00    | 53.5   | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/24/1990 | 12:00 | 10/25/1990 | 7:00     | 19     | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 168 | Oak Creek #6 |      |     | NC | 11/10/1990 | 6:00  | 11/11/1990 | 15:40    | 33.66  | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 168 | Oak Creek #6 |      |     | NC | 11/11/1990 | 15:40 | 11/12/1990 | 5:00     | 13.33  | 265  | OTHER AIR HEATER PROBLEMS       |
| 521 | 168 | Oak Creek #6 |      |     | NC | 11/12/1990 | 20:40 | 11/13/1990 | 6:15     | 9.58   | 265  | OTHER AIR HEATER PROBLEMS       |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 12/4/1990  | 18:10 | 12/4/1990  | 19:45    | 1.58   | 3112 | CONDENSER TUBE FOULING TUBE SID |
| 521 | 168 | Oak Creek #6 |      |     | NC | 12/7/1990  | 22:16 | 12/8/1990  | 12:00    | 13.73  | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 12/14/1990 | 15:58 | 12/14/1990 | 19:19    | 3.35   | 9910 | MAINTENANCE ERROR               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 12/14/1990 | 21:49 | 12/17/1990 | 12:00    | 62.18  | 1040 | FIRST SUPERHEATER               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 12/17/1990 | 12:00 | 12/18/1990 | 5:36     | 17.6   | 4611 | HYDROGEN COOLERS HEAD LEAK      |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 12/20/1990 | 14:00 | 12/21/1990 | 22:38    | 32.63  | 1999 | UNIT COND. (HIGH SUPERHT TEMP   |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 12/21/1990 | 22:38 | 12/26/1990 | 7:30     | 104.86 | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 12/26/1990 | 7:30  | 12/30/1990 | 20:45    | 109.25 | 4261 | CONTROL VALVE REPAIR            |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 12/30/1990 | 20:45 | 12/31/1990 | 24:00:00 | 27.25  | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 1/1/1991   | 0:01  | 1/1/1991   | 5:06     | 5.08   | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | *    | 200 | D1 | 1/2/1991   | 7:00  | 1/2/1991   | 17:00    | 10     | 1999 | UNIT CONDITIONS                 |

WEPCO 40068



|     |     |              |      |     |    |            |       |            |       |        |      |                                |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|--------------------------------|
| 521 | 168 | Oak Creek #6 | *    | 225 | D1 | 1/2/1991   | 17:00 | 1/3/1991   | 10:00 | 17     | 1999 | UNIT CONDITIONS                |
| 521 | 168 | Oak Creek #6 | *    | 235 | D1 | 1/3/1991   | 10:00 | 1/3/1991   | 23:30 | 13.5   | 1999 | UNIT CONDITIONS                |
| 521 | 168 | Oak Creek #6 | *    | 220 | D1 | 1/7/1991   | 8:15  | 1/8/1991   | 0:01  | 15.76  | 9270 | WET COAL                       |
| 521 | 168 | Oak Creek #6 | *    |     | NC | 1/12/1991  | 22:05 | 1/13/1991  | 2:22  | 4.28   | 340  | OTHER PULVERIZER PROBLEMS      |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 1/19/1991  | 6:07  | 1/19/1991  | 8:26  | 2.31   | 1799 | OTHER CONTROL PROBLEMS         |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 1/19/1991  | 8:42  | 1/19/1991  | 9:24  | 0.7    | 1799 | OTHER CONTROL PROBLEMS         |
| 521 | 168 | Oak Creek #6 | *    |     | NC | 2/2/1991   | 21:00 | 2/3/1991   | 12:15 | 15.25  | 310  | PULVERIZER PROBLEM             |
| 521 | 168 | Oak Creek #6 | *    |     | NC | 2/3/1991   | 12:15 | 2/3/1991   | 13:40 | 1.41   | 1470 | ID FAN MOTOR                   |
| 521 | 168 | Oak Creek #6 | *    |     | NC | 2/3/1991   | 13:40 | 2/4/1991   | 0:01  | 10.35  | 310  | PULVERIZER PROBLEM             |
| 521 | 168 | Oak Creek #6 | *    | 160 | D1 | 2/11/1991  | 6:10  | 2/12/1991  | 7:45  | 25.58  | 310  | PULVERIZER PROBLEM             |
| 521 | 168 | Oak Creek #6 | *    | 160 | D1 | 3/19/1991  | 6:15  | 3/19/1991  | 11:00 | 4.75   | 280  | PULVERIZER FIRE                |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 3/24/1991  | 6:14  | 3/24/1991  | 7:24  | 1.16   | 0    | Reserve Shutdown               |
| 521 | 168 | Oak Creek #6 | *    | 215 | D1 | 3/25/1991  | 11:12 | 3/25/1991  | 12:07 | 0.91   | 1799 | BLR CONTROL PROBLEMS           |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 3/29/1991  | 4:20  | 4/1/1991   | 5:00  | 72.66  | 0    | Reserve Shutdown               |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 4/2/1991   | 7:15  | 4/2/1991   | 7:40  | 0.41   | 1710 | COMBUSTION CONTROLS            |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 4/7/1991   | 18:45 | 4/8/1991   | 2:30  | 7.75   | 335  | PULVERIZER LUB OIL SYSTEM      |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 4/20/1991  | 2:43  | 4/22/1991  | 1:25  | 46.7   | 0    | Reserve Shutdown               |
| 521 | 168 | Oak Creek #6 | 000* | 150 | PD | 6/15/1991  | 7:00  | 6/17/1991  | 14:30 | 55.5   | 335  | PULVERIZER LUBE OIL SYSTEM     |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/22/1991  | 1:22  | 6/22/1991  | 4:26  | 3.06   | 9900 | OPERATOR ERROR                 |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/22/1991  | 4:42  | 6/22/1991  | 8:30  | 3.8    | 4260 | MAIN STOP VALVES               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/23/1991  | 0:12  | 6/23/1991  | 1:04  | 0.86   | 1710 | COMBUSTION/STM CONDITION CTRLS |
| 521 | 168 | Oak Creek #6 | 000* | 107 | D1 | 7/31/1991  | 13:22 | 7/31/1991  | 14:55 | 1.55   | 1411 | FORCED DRAFT FAN MOTORS        |
| 521 | 168 | Oak Creek #6 | *    |     | NC | 8/3/1991   | 5:15  | 8/4/1991   | 20:50 | 39.58  | 310  | 61 MILL PULVERIZER             |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 8/5/1991   | 22:45 | 8/12/1991  | 5:20  | 150.58 | 0    | Reserve Shutdown               |
| 521 | 168 | Oak Creek #6 | *    |     | SF | 8/12/1991  | 5:20  | 8/12/1991  | 9:48  | 4.46   | 3411 | FEEDWTR PUMP DRIVE MTR         |
| 521 | 168 | Oak Creek #6 | *    |     | SF | 8/12/1991  | 9:48  | 8/12/1991  | 22:20 | 12.53  | 4030 | ROTOR SHAFT                    |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 8/13/1991  | 3:50  | 8/13/1991  | 19:00 | 15.16  | 270  | 62 MILL AIR INLET DAMPER       |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 9/19/1991  | 6:00  | 9/19/1991  | 8:50  | 2.83   | 1710 | COMBUSTION CONTROLS            |
| 521 | 168 | Oak Creek #6 | *    |     | NC | 9/29/1991  | 0:01  | 9/29/1991  | 20:00 | 19.98  | 335  | PULVERIZER LUBE OIL SYSTEM     |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 10/4/1991  | 16:08 | 11/9/1991  | 10:54 | 858.76 | 1800 | PLANNED MAINTENANCE OUTAGE     |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 11/9/1991  | 11:24 | 11/9/1991  | 12:29 | 1.08   | 3441 | OTHER HP FDWTR HTR PROBLEMS    |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 12/2/1991  | 11:25 | 12/5/1991  | 7:46  | 68.35  | 1005 | GENERATING TUBE                |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 12/10/1991 | 14:35 | 12/10/1991 | 20:35 | 6      | 340  | 63 MILL AUX AIR FAN            |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 1/5/1992   | 21:31 | 1/5/1992   | 22:30 | 0.98   | 3502 | HEATER LEVEL CONTROL           |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D2 | 2/3/1992   | 8:00  | 2/4/1992   | 12:15 | 28.25  | 340  | OTHER PULVERIZER PROBLEMS      |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 2/11/1992  | 0:21  | 2/11/1992  | 6:13  | 5.86   | 0    | Reserve Shutdown               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 2/21/1992  | 1:34  | 2/21/1992  | 2:10  | 0.6    | 1710 | COMBUSTION CONTROLS            |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 2/24/1992  | 6:30  | 2/24/1992  | 10:00 | 3.5    | 340  | OTHER PULVERIZER PROBLEMS      |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 3/2/1992   | 17:15 | 3/2/1992   | 22:00 | 4.75   | 340  | OTHER PULVERIZER PROBLEMS      |
| 521 | 168 | Oak Creek #6 | *    |     | NC | 3/4/1992   | 23:00 | 3/6/1992   | 12:10 | 37.16  | 340  | OTHER PULVERIZER PROBLEMS      |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D3 | 3/6/1992   | 12:10 | 3/8/1992   | 0:01  | 35.84  | 340  | OTHER PULVERIZER PROBLEMS      |
| 521 | 168 | Oak Creek #6 | *    |     | NC | 3/6/1992   | 12:10 | 3/8/1992   | 0:01  | 35.84  | 340  | OTHER PULVERIZER PROBLEMS      |
| 521 | 168 | Oak Creek #6 | *    |     | NC | 3/8/1992   | 0:01  | 3/9/1992   | 5:00  | 28.98  | 340  | OTHER PULVERIZER PROBLEMS      |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 3/21/1992  | 3:04  | 3/21/1992  | 4:18  | 1.23   | 0    | Reserve Shutdown               |
| 521 | 168 | Oak Creek #6 | *    |     | NC | 4/5/1992   | 5:00  | 4/5/1992   | 18:00 | 13     | 1480 | OTHER ID FAN PROBLEMS          |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 4/9/1992   | 9:12  | 4/9/1992   | 10:15 | 1.04   | 3430 | FEEDWATER REGULATING VALVE     |



|     |     |              |      |     |    |            |       |            |       |        |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---------------------------------|
| 521 | 168 | Oak Creek #6 |      |     | NC | 4/14/1992  | 0:01  | 4/14/1992  | 3:30  | 3.48   | 1420 | FD FAN DRIVES                   |
| 521 | 168 | Oak Creek #6 | 000* | 178 | D1 | 4/14/1992  | 6:30  | 4/14/1992  | 8:45  | 2.25   | 350  | PULVERIZED FUEL & AIR PIPING    |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 4/20/1992  | 11:06 | 4/23/1992  | 7:51  | 68.75  | 1005 | GENERATING TUBE                 |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/7/1992   | 6:21  | 5/11/1992  | 0:16  | 89.91  | 1005 | GENERATING TUBE                 |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 5/12/1992  | 7:00  | 5/13/1992  | 0:01  | 17.01  | 1999 | UNIT CONDITIONS HI SPRHT TMPS   |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 5/13/1992  | 0:01  | 5/14/1992  | 0:01  | 24     | 1999 | UNIT CONDITIONS HI SPRHT TMPS   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/16/1992  | 14:31 | 5/16/1992  | 15:40 | 1.15   | 1710 | COMBUSTION CONTROLS             |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 6/1/1992   | 8:15  | 6/1/1992   | 11:30 | 3.25   | 250  | PULVERIZER FEEDER               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/13/1992  | 6:58  | 6/13/1992  | 8:38  | 1.66   | 1750 | BURNER MANAGEMENT SYSTEM        |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/13/1992  | 18:31 | 6/14/1992  | 10:13 | 15.7   | 4740 | EMERGENCY GEN TRIP DEVICE       |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 6/14/1992  | 10:13 | 6/14/1992  | 16:06 | 5.88   | 3440 | HI PRESSURE HTR TUBE LEAKS      |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/14/1992  | 16:06 | 6/14/1992  | 17:35 | 1.48   | 3502 | HTR LEVEL CONTROL               |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 6/14/1992  | 17:35 | 6/15/1992  | 11:10 | 17.58  | 3440 | HI PRESSURE HTR TUBE LEAKS      |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/18/1992  | 16:53 | 6/18/1992  | 21:51 | 4.96   | 3664 | 4160V PROTECTIVE DEVICES        |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/19/1992  | 1:13  | 6/19/1992  | 2:06  | 0.88   | 1750 | BURNER MANAGEMENT SYSTEM        |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 6/22/1992  | 20:06 | 7/6/1992   | 1:07  | 317.01 | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 7/28/1992  | 15:43 | 7/28/1992  | 17:10 | 1.45   | 1799 | OTHER BOILER CONTROL PROBLEMS   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 7/29/1992  | 6:47  | 7/29/1992  | 10:30 | 3.71   | 1750 | BURNER MANAGEMENT SYSTEM        |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 7/29/1992  | 10:30 | 7/30/1992  | 1:40  | 15.16  | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 7/29/1992  | 10:30 | 7/30/1992  | 1:40  | 15.16  | 380  | BURNER LIGHTOFF                 |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 7/30/1992  | 1:40  | 8/9/1992   | 10:34 | 248.9  | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 8/11/1992  | 4:00  | 8/11/1992  | 21:55 | 17.91  | 380  | LIGHT-OFF SYSTEMS               |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 8/12/1992  | 2:10  | 8/23/1992  | 7:56  | 269.76 | 0    | Reserve Shutdown                |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 8/24/1992  | 9:30  | 8/24/1992  | 23:00 | 13.5   | 330  | PULVERIZER COAL LEAK            |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/5/1992   | 22:48 | 9/6/1992   | 0:40  | 1.86   | 4302 | TURBINE TRIP DEVICES            |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/6/1992   | 0:40  | 9/6/1992   | 0:56  | 0.26   | 1799 | OTHER BOILER CONTROL PROBLEMS   |
| 521 | 168 | Oak Creek #6 |      |     | NC | 9/6/1992   | 0:56  | 9/7/1992   | 18:00 | 41.06  | 3440 | HI PRESSURE FDWTR HTR TUBE LEAK |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/8/1992   | 2:02  | 9/8/1992   | 2:25  | 0.38   | 1750 | BURNER MANAGEMENT SYSTEM        |
| 521 | 168 | Oak Creek #6 |      |     | NC | 9/11/1992  | 1:30  | 9/11/1992  | 6:00  | 4.5    | 3503 | HEATER DRAIN PIPING             |
| 521 | 168 | Oak Creek #6 | 000* | 175 | D1 | 9/22/1992  | 2:00  | 9/22/1992  | 17:11 | 15.18  | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 168 | Oak Creek #6 | 000* | 100 | D1 | 9/22/1992  | 17:11 | 9/23/1992  | 11:15 | 18.06  | 250  | PULVERIZER FEEDERS              |
| 521 | 168 | Oak Creek #6 | 000* | 175 | D1 | 9/23/1992  | 11:15 | 9/25/1992  | 5:00  | 41.75  | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 168 | Oak Creek #6 |      |     | NC | 9/26/1992  | 0:01  | 9/27/1992  | 0:01  | 24     | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/31/1992 | 21:15 | 10/31/1992 | 22:12 | 0.95   | 1799 | OTHER BLR CONTROL PROBLEMS      |
| 521 | 168 | Oak Creek #6 | 000* | 186 | D1 | 11/2/1992  | 9:15  | 11/2/1992  | 10:00 | 0.75   | 250  | PULVERIZED FEEDER               |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 11/3/1992  | 6:30  | 11/3/1992  | 7:30  | 1      | 380  | LIGHT OFF SYSTEMS               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 11/13/1992 | 22:56 | 11/14/1992 | 4:38  | 5.7    | 280  | PULVERIZER FIRE                 |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 11/14/1992 | 4:38  | 11/14/1992 | 16:15 | 11.61  | 9270 | WET COAL                        |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 11/14/1992 | 16:15 | 11/14/1992 | 17:20 | 1.08   | 1750 | BURNER MANAGEMENT SYSTEM        |
| 521 | 168 | Oak Creek #6 | 000* | 130 | D1 | 11/14/1992 | 17:20 | 11/15/1992 | 18:30 | 25.16  | 9270 | WET COAL                        |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 11/15/1992 | 18:30 | 11/16/1992 | 5:30  | 11     | 280  | PULVERIZER FIRE                 |
| 521 | 168 | Oak Creek #6 | 000* | 230 | D1 | 11/17/1992 | 16:30 | 11/17/1992 | 18:00 | 1.5    | 3441 | OTHER HI PRESSURE HTR PROBLEMS  |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 11/24/1992 | 6:24  | 12/27/1992 | 3:07  | 812.71 | 1800 | PLANNED MAINTENANCE OUTAGE      |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 12/30/1992 | 0:01  | 12/31/1992 | 5:00  | 28.98  | 310  | PULVERIZER MILLS                |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 12/30/1992 | 19:42 | 12/30/1992 | 20:16 | 0.56   | 9270 | WET COAL                        |

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|     |     |              |      |     |    |            |       |            |       |        |      |                                |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|--------------------------------|
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 12/31/1992 | 18:15 | 12/31/1992 | 20:00 | 1.75   | 9270 | WET COAL                       |
| 521 | 168 | Oak Creek #6 | 000* | 215 | D1 | 1/2/1993   | 17:00 | 1/3/1993   | 5:00  | 12     | 8550 | ELECTROSTATIC PRECIP FOULING   |
| 521 | 168 | Oak Creek #6 | 000* | 165 | D1 | 1/4/1993   | 7:00  | 1/6/1993   | 21:55 | 62.91  | 8550 | ELECTROSTATIC PRECIPS FOULING  |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 1/6/1993   | 21:55 | 1/7/1993   | 4:09  | 6.23   | 8550 | ELECTROSTATIC PRECIPS FOULING  |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 1/8/1993   | 7:00  | 1/9/1993   | 0:37  | 17.61  | 8550 | ELECTROSTATIC PRECIPS FOULING  |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 1/9/1993   | 0:37  | 1/10/1993  | 6:37  | 30     | 0    | Reserve Shutdown               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 1/10/1993  | 15:45 | 1/10/1993  | 18:32 | 2.78   | 1750 | BURNER MANAGEMENT SYSTEM       |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 2/10/1993  | 8:15  | 2/11/1993  | 18:35 | 34.33  | 205  | PULVERIZER EXHAUSTER FAN DRIVE |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 2/24/1993  | 20:40 | 2/25/1993  | 13:54 | 17.23  | 4609 | OTHER EXCITER PROBLEMS         |
| 521 | 168 | Oak Creek #6 | *    |     | SF | 2/25/1993  | 14:15 | 2/25/1993  | 14:39 | 0.4    | 1710 | COMBUSTION CONTROLS            |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 2/26/1993  | 8:00  | 2/26/1993  | 18:00 | 10     | 3504 | HEATER DRAIN VALVES            |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 3/4/1993   | 13:00 | 3/6/1993   | 21:00 | 56     | 3440 | HI PRESSURE HTR TUBE LEAKS     |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 3/14/1993  | 14:00 | 3/14/1993  | 18:15 | 4.25   | 350  | PULVERIZED FUEL & AIR PIPING   |
| 521 | 168 | Oak Creek #6 | 000* | 235 | D1 | 3/15/1993  | 8:00  | 3/15/1993  | 13:30 | 5.5    | 1799 | BOILER CONTROL PROBLEMS        |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 3/18/1993  | 17:30 | 3/18/1993  | 21:00 | 3.5    | 250  | PULVERIZER FEEDERS             |
| 521 | 168 | Oak Creek #6 |      |     | NC | 3/20/1993  | 5:00  | 3/20/1993  | 8:00  | 3      | 300  | PULVERIZER MOTORS & DRIVES     |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D4 | 3/20/1993  | 8:00  | 3/20/1993  | 14:00 | 6      | 300  | PULVERIZER MOTORS & DRIVES     |
| 521 | 168 | Oak Creek #6 |      |     | NC | 3/20/1993  | 14:00 | 3/22/1993  | 6:30  | 40.5   | 300  | PULVERIZER MOTORS & DRIVES     |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D4 | 3/22/1993  | 6:30  | 3/23/1993  | 9:20  | 26.83  | 300  | PULVERIZER MOTORS & DRIVES     |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 3/28/1993  | 1:26  | 3/28/1993  | 3:23  | 1.95   | 1710 | COMBUSTION CONTROLS            |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D2 | 3/31/1993  | 13:00 | 3/31/1993  | 18:30 | 5.5    | 250  | PULVERIZER FEEDER              |
| 521 | 168 | Oak Creek #6 | *    | 170 | D1 | 4/2/1993   | 4:00  | 4/2/1993   | 5:00  | 1      | 250  | PULVERIZER FEEDER              |
| 521 | 168 | Oak Creek #6 | *    | 170 | D1 | 4/2/1993   | 5:00  | 4/5/1993   | 7:30  | 74.5   | 110  | WET COAL, MILL PLUGGED 62 MILL |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 4/10/1993  | 2:16  | 4/10/1993  | 3:56  | 1.66   | 0    | Reserve Shutdown               |
| 521 | 168 | Oak Creek #6 |      |     | NC | 4/10/1993  | 2:16  | 4/12/1993  | 6:00  | 51.73  | 3439 | HI PRESSURE HTR HEAD LEAK      |
| 521 | 168 | Oak Creek #6 | *    | 140 | D1 | 4/12/1993  | 12:40 | 4/12/1993  | 15:00 | 2.33   | 1412 | FD FAN DRIVES                  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 4/20/1993  | 14:45 | 4/20/1993  | 15:37 | 0.86   | 3230 | CIRCULATING WATER VALVES       |
| 521 | 168 | Oak Creek #6 |      |     | NC | 4/25/1993  | 0:01  | 4/25/1993  | 16:30 | 16.48  | 300  | PULVERIZER MOTORS & DRIVES     |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 5/11/1993  | 22:55 | 5/16/1993  | 1:00  | 98.08  | 0    | Reserve Shutdown               |
| 521 | 168 | Oak Creek #6 | *    |     | SF | 5/16/1993  | 1:00  | 5/20/1993  | 21:52 | 116.86 | 4260 | MAIN STOP VALVES               |
|     |     |              |      |     |    |            |       |            |       |        |      | OTHER COAL FUEL SUPPLY         |
| 521 | 168 | Oak Creek #6 | *    | 225 | D1 | 6/8/1993   | 10:50 | 6/8/1993   | 11:30 | 0.66   | 9270 | PROBLEMS                       |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 6/16/1993  | 0:05  | 6/16/1993  | 2:52  | 2.78   | 0    | Reserve Shutdown               |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 6/26/1993  | 0:44  | 6/30/1993  | 1:30  | 96.76  | 0    | Reserve Shutdown               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 7/7/1993   | 13:02 | 7/7/1993   | 14:22 | 1.33   | 3659 | OTHER DC POWER PROBLEMS        |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D2 | 7/7/1993   | 19:00 | 7/8/1993   | 5:20  | 10.33  | 3440 | OTHER HP FDWTR PROBLEMS        |
| 521 | 168 | Oak Creek #6 | 000* | 225 | D1 | 8/13/1993  | 11:30 | 8/13/1993  | 15:00 | 3.5    | 9270 | WET COAL                       |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 9/4/1993   | 0:37  | 9/7/1993   | 0:29  | 71.86  | 0    | Reserve Shutdown               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/7/1993   | 2:20  | 9/7/1993   | 2:51  | 0.51   | 3430 | FDWTR REGULATING VALVE         |
| 521 | 168 | Oak Creek #6 |      |     | NC | 9/18/1993  | 7:00  | 9/20/1993  | 7:00  | 48     | 340  | OTHER PULVERIZER PROBLEMS      |
| 521 | 168 | Oak Creek #6 |      |     | NC | 9/20/1993  | 7:00  | 9/21/1993  | 16:00 | 33     | 340  | OTHER PULVERIZER PROBLEMS      |
| 521 | 168 | Oak Creek #6 | 000* | 185 | D1 | 10/4/1993  | 7:30  | 10/4/1993  | 8:00  | 0.5    | 1710 | COMBUSTION CONTROLS            |
| 521 | 168 | Oak Creek #6 |      |     | NC | 10/9/1993  | 16:00 | 10/10/1993 | 8:00  | 16     | 340  | OTHER PULVERIZER PROBLEMS      |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 11/5/1993  | 22:25 | 11/8/1993  | 2:54  | 52.48  | 0    | Reserve Shutdown               |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 11/9/1993  | 3:00  | 11/9/1993  | 21:00 | 18     | 1999 | BOILER MISCELLANEOUS           |
| 521 | 168 | Oak Creek #6 |      |     | NC | 11/13/1993 | 0:01  | 11/14/1993 | 19:45 | 43.73  | 3310 | CONDENSATE/HOTWELL PUMPS       |

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|     |     |              |      |     |    |            |       |            |       |         |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|---------|------|--|
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 12/23/1993 | 4:45  | 12/24/1993 | 16:40 | 35.91   | 340  | OTHER PULVERIZER PROBLEMS  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 12/27/1993 | 11:47 | 12/27/1993 | 12:57 | 1.16    | 9910 | ELECT. MAINT. ERROR CAUSED MFT<br>ELECTROSTATIC PRECIPITATOR<br>PROBLEMS |
| 521 | 168 | Oak Creek #6 | 000* | 115 | D1 | 1/24/1994  | 16:15 | 1/25/1994  | 1:00  | 8.75    | 8560 | PROBLEMS   |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 1/29/1994  | 21:38 | 1/30/1994  | 14:31 | 16.88   | 0    | Reserve Shutdown   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 1/30/1994  | 17:05 | 1/30/1994  | 17:24 | 0.31    | 1750 | BURNER MANAGEMENT SYSTEM   |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 2/6/1994   | 7:33  | 2/6/1994   | 10:57 | 3.4     | 0    | Reserve Shutdown   |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 2/10/1994  | 6:25  | 2/10/1994  | 12:00 | 5.58    | 250  | PULVERIZER FEEDERS   |
| 521 | 168 | Oak Creek #6 | *    |     | NC | 2/18/1994  | 23:00 | 2/20/1994  | 10:00 | 35      | 340  | OTHER PULVERIZER PROBLEMS  |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 2/26/1994  | 10:20 | 2/28/1994  | 14:00 | 51.66   | 3440 | HI PRESSURE HTR TUBE LEAKS   |
| 521 | 168 | Oak Creek #6 | 000* | 215 | D1 | 3/23/1994  | 6:30  | 3/28/1994  | 4:10  | 117.66  | 345  | PULVERIZER OVERHAUL  |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 3/31/1994  | 23:21 | 4/3/1994   | 21:05 | 69.73   | 0    | Reserve Shutdown   |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 4/26/1994  | 23:50 | 5/1/1994   | 16:48 | 112.96  | 1040 | FIRST SUPERHEATER  |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 5/4/1994   | 7:00  | 5/4/1994   | 18:00 | 11      | 1999 | BOILER MISCELLANEOUS   |
| 521 | 168 | Oak Creek #6 | *    |     | NC | 5/21/1994  | 0:01  | 5/22/1994  | 14:30 | 38.48   | 310  | PULVERIZER MILLS   |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 5/22/1994  | 0:27  | 5/22/1994  | 1:33  | 1.1     | 0    | Reserve Shutdown   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/23/1994  | 12:49 | 5/23/1994  | 14:13 | 1.4     | 1799 | OTHER CONTROL PROBLEMS   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/23/1994  | 15:11 | 5/23/1994  | 15:37 | 0.43    | 1799 | OTHER CONTROL PROBLEMS   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/23/1994  | 16:25 | 5/23/1994  | 16:44 | 0.31    | 380  | LIGHT OFF SYSTEM   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/23/1994  | 17:33 | 5/23/1994  | 17:50 | 0.28    | 380  | LIGHT OFF SYSTEM   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/23/1994  | 20:20 | 5/23/1994  | 20:46 | 0.43    | 380  | LIGHT OFF SYSTEM   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/24/1994  | 9:04  | 5/24/1994  | 10:14 | 1.16    | 9900 | OPERATOR ERROR   |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 5/26/1994  | 23:40 | 5/30/1994  | 18:20 | 90.66   | 0    | Reserve Shutdown   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 7/7/1994   | 0:15  | 7/7/1994   | 2:00  | 1.75    | 1400 | FORCED DRAFT FAN   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 7/7/1994   | 2:00  | 7/7/1994   | 16:50 | 14.83   | 4410 | TURNING GEAR AND MOTOR   |
| 521 | 168 | Oak Creek #6 | *    |     | NC | 7/9/1994   | 0:01  | 7/11/1994  | 6:00  | 53.98   | 3439 | HP FDWTR HTR HEAD LEAKS  |
| 521 | 168 | Oak Creek #6 | 000* | 165 | D1 | 7/29/1994  | 13:00 | 7/29/1994  | 21:10 | 8.16    | 3440 | HP FDWTR HTR TUBE LEAKS  |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 7/29/1994  | 21:10 | 8/1/1994   | 4:47  | 55.61   | 0    | Reserve Shutdown   |
| 521 | 168 | Oak Creek #6 | 000* | 130 | D1 | 8/4/1994   | 21:00 | 8/5/1994   | 12:00 | 15      | 310  | PULVERIZER MILL  |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 8/9/1994   | 16:20 | 8/9/1994   | 22:00 | 5.66    | 3112 | COND. TUBE FOULING TUBE SIDE   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 8/18/1994  | 5:18  | 8/22/1994  | 0:01  | 90.71   | 4520 | STATOR WINDINGS  |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 8/22/1994  | 0:01  | 10/10/1994 | 8:14  | 1184.21 | 4520 | PLANNED ANNUAL OUTAGE  |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 10/10/1994 | 21:48 | 10/11/1994 | 17:02 | 19.23   | 3832 | AUX STEAM VALVES   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/17/1994 | 23:05 | 10/18/1994 | 5:53  | 6.8     | 1710 | COMBUSTION CONTROLS  |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 10/21/1994 | 4:25  | 10/25/1994 | 2:09  | 93.73   | 4260 | MAIN STOP VALVES   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 11/1/1994  | 15:46 | 11/1/1994  | 16:39 | 0.88    | 3412 | FEEDWATER PUMP DRIVE TURBINE   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 11/3/1994  | 23:38 | 11/4/1994  | 0:53  | 1.25    | 340  | OTHER PULVERIZER PROBLEMS  |
| 521 | 168 | Oak Creek #6 | 000* | 140 | PD | 12/6/1994  | 15:00 | 12/7/1994  | 6:25  | 15.41   | 3441 | OTHER HP HEATER PROBLEMS   |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 1/10/1995  | 3:00  | 1/10/1995  | 14:30 | 11.5    | 310  | PULVERIZER MILLS   |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 1/23/1995  | 9:10  | 1/23/1995  | 10:15 | 1.08    | 205  | PULVERIZER EXHAUSTER FAN DRIVE   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 3/1/1995   | 3:42  | 3/1/1995   | 7:31  | 3.81    | 3271 | INTAKE GRATING FOULING   |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 3/1/1995   | 18:00 | 3/1/1995   | 22:00 | 4       | 1850 | BOILER WATER CONDITION   |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 3/7/1995   | 5:24  | 3/12/1995  | 5:51  | 120.45  | 4613 | L.S. GENERATOR HYDROGEN SEALS  |
| 521 | 168 | Oak Creek #6 | *    |     | SF | 3/12/1995  | 5:51  | 3/12/1995  | 21:45 | 15.9    | 520  | MAIN STEAM DRAIN LINE LEAK   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 4/13/1995  | 18:15 | 4/16/1995  | 11:00 | 64.75   | 1080 | ECONOMIZER LEAK  |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 4/19/1995  | 12:36 | 4/22/1995  | 0:02  | 59.43   | 1005 | STEAM GENERATING TUBE  |

|     |     |              |      |     |    |            |       |            |       |         |      |                               |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|---------|------|-------------------------------|
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 4/23/1995  | 0:08  | 4/23/1995  | 1:30  | 1.36    | 9900 | OPERATOR ERROR                |
| 521 | 168 | Oak Creek #6 | *    |     | SF | 4/23/1995  | 1:30  | 4/23/1995  | 5:45  | 4.25    | 3131 | AIR EJECTOR PIPING & VALVES   |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 4/26/1995  | 6:50  | 4/26/1995  | 7:30  | 0.66    | 380  | LOSS OF IGNITOR SCAN          |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 5/10/1995  | 16:40 | 5/11/1995  | 12:30 | 19.83   | 250  | PULVERIZER FEEDER             |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 6/8/1995   | 19:06 | 6/11/1995  | 20:28 | 73.36   | 0    | Reserve Shutdown              |
| 521 | 168 | Oak Creek #6 | 000* | 150 | D1 | 8/11/1995  | 10:57 | 8/12/1995  | 3:30  | 16.54   | 3420 | FEEDWATER PIPING              |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 8/18/1995  | 7:00  | 8/19/1995  | 7:00  | 24      | 9270 | WET COAL                      |
| 521 | 168 | Oak Creek #6 | 000* | 210 | D1 | 8/20/1995  | 17:30 | 8/21/1995  | 15:30 | 22      | 9270 | WET COAL                      |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 8/24/1995  | 14:50 | 8/24/1995  | 18:30 | 3.66    | 250  | PULVERIZED FEEDER             |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/8/1995   | 9:59  | 9/8/1995   | 10:29 | 0.5     | 3230 | CIRCULATING WATER VALVES      |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/8/1995   | 14:48 | 9/8/1995   | 15:29 | 0.68    | 3412 | FEEDWATER PUMP DRIVE TURBINE  |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 9/14/1995  | 6:00  | 9/14/1995  | 17:09 | 11.15   | 300  | 62 MILL DRIVE SYSTEM          |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/11/1995 | 23:24 | 10/11/1995 | 23:52 | 0.46    | 4302 | TURBINE TRIP DEVICE           |
| 521 | 168 | Oak Creek #6 | 000* | 170 | D1 | 10/13/1995 | 6:15  | 10/13/1995 | 22:25 | 16.16   | 360  | 62B BURNER PROBLEM            |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 10/13/1995 | 22:25 | 10/15/1995 | 18:34 | 44.15   | 0    | Reserve Shutdown              |
| 521 | 168 | Oak Creek #6 | 000* | 185 | D1 | 10/16/1995 | 17:00 | 10/17/1995 | 13:30 | 20.5    | 340  | OTHER PULVERIZER PROBLEMS     |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/18/1995 | 7:15  | 10/20/1995 | 23:00 | 63.75   | 1005 | STEAM GENERATING TUBE         |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 10/20/1995 | 23:00 | 11/4/1995  | 16:48 | 353.8   | 1800 | BOILER OVERHAUL               |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 11/11/1995 | 15:58 | 11/12/1995 | 13:30 | 21.53   | 310  | PULVERIZER MILLS              |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 11/23/1995 | 6:03  | 11/26/1995 | 11:45 | 77.69   | 1590 | STACK OUTAGE                  |
| 521 | 168 | Oak Creek #6 | 000* | 130 | D1 | 11/28/1995 | 6:00  | 11/28/1995 | 8:30  | 2.5     | 340  | OTHER MILL PROBLEMS           |
| 521 | 168 | Oak Creek #6 | 000* | 115 | D1 | 12/18/1995 | 16:00 | 12/18/1995 | 18:30 | 2.5     | 8560 | ELECTROSTATIC PRECIP PROBLEM  |
| 521 | 168 | Oak Creek #6 | 000* | 115 | D1 | 12/20/1995 | 14:45 | 12/20/1995 | 17:00 | 2.25    | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 12/24/1995 | 0:27  | 12/29/1995 | 10:12 | 129.75  | 0    | Reserve Shutdown              |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 12/29/1995 | 21:00 | 12/31/1995 | 23:59 | 50.98   | 1050 | SECOND SUPERHEATER            |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 1/1/1996   | 0:00  | 1/1/1996   | 5:08  | 5.13    | 1050 |                               |
| 521 | 168 | Oak Creek #6 | 000* | 175 | D1 | 1/1/1996   | 5:08  | 1/3/1996   | 0:00  | 42.86   | 1999 |                               |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 1/3/1996   | 0:01  | 1/3/1996   | 7:30  | 7.48    | 1999 |                               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 1/10/1996  | 5:45  | 1/29/1996  | 0:01  | 450.26  | 4520 |                               |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 1/29/1996  | 0:01  | 2/26/1996  | 23:59 | 695.96  | 4520 | nil                           |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 2/27/1996  | 0:01  | 4/17/1996  | 19:53 | 1195.86 | 4520 | nil                           |
| 521 | 168 | Oak Creek #6 | 000* | 100 | D1 | 4/18/1996  | 19:30 | 4/19/1996  | 9:00  | 13.5    | 3310 |                               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 4/20/1996  | 12:21 | 4/20/1996  | 17:39 | 5.3     | 3521 |                               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 4/20/1996  | 20:42 | 4/22/1996  | 5:06  | 32.4    | 3521 |                               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/11/1996  | 2:38  | 5/11/1996  | 9:40  | 7.03    | 4309 | nil                           |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 5/19/1996  | 9:00  | 5/19/1996  | 13:00 | 4       | 1471 |                               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/22/1996  | 4:54  | 5/22/1996  | 5:32  | 0.63    | 9910 | Normal                        |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/5/1996   | 5:51  | 6/5/1996   | 6:24  | 0.55    | 3412 |                               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/11/1996  | 10:11 | 6/13/1996  | 0:36  | 38.41   | 1080 | nil                           |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 7/24/1996  | 18:29 | 7/24/1996  | 21:49 | 3.33    | 1471 |                               |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 7/24/1996  | 21:49 | 7/25/1996  | 11:00 | 13.18   | 1488 | nil                           |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 7/25/1996  | 12:00 | 7/28/1996  | 10:21 | 70.35   | 1488 | nil                           |
| 521 | 168 | Oak Creek #6 | 000* | 220 | D1 | 7/28/1996  | 10:21 | 7/28/1996  | 21:05 | 10.73   | 1488 |                               |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 7/31/1996  | 7:00  | 7/31/1996  | 18:45 | 11.75   | 3441 | nil                           |
| 521 | 168 | Oak Creek #6 | 000* | 130 | D1 | 8/9/1996   | 5:00  | 8/10/1996  | 22:34 | 41.56   | 3440 | nil                           |
| 521 | 168 | Oak Creek #6 | 000* | 160 | D1 | 8/12/1996  | 13:30 | 8/12/1996  | 14:45 | 1.25    | 330  |                               |

|     |     |              |      |     |    |            |       |            |       |         |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|---------|------|--|
| 521 | 168 | Oak Creek #6 | 000* | 85  | D1 | 9/13/1996  | 6:00  | 9/14/1996  | 22:55 | 40.91   | 3112 |  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/14/1996  | 22:55 | 9/15/1996  | 16:45 | 17.83   | 3112 |  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/17/1996  | 5:53  | 9/17/1996  | 7:43  | 1.83    | 3412 |  |
| 521 | 168 | Oak Creek #6 | 000* | 100 | D1 | 9/17/1996  | 13:30 | 9/18/1996  | 10:53 | 21.38   | 3112 | nil  |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 9/18/1996  | 10:53 | 9/18/1996  | 20:00 | 9.11    | 3112 |  |
| 521 | 168 | Oak Creek #6 | 000* | 100 | D1 | 9/19/1996  | 8:00  | 9/19/1996  | 11:00 | 3       | 360  |  |
| 521 | 168 | Oak Creek #6 | 000* | 200 | D1 | 9/19/1996  | 14:00 | 9/20/1996  | 0:01  | 10.01   | 3112 |  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/25/1996  | 15:58 | 9/26/1996  | 4:02  | 12.06   | 280  |  |
| 521 | 168 | Oak Creek #6 | 000* | 90  | D1 | 9/26/1996  | 4:02  | 10/1/1996  | 10:00 | 125.96  | 280  | nil  |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 10/1/1996  | 13:30 | 10/1/1996  | 20:30 | 7       | 360  |  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/1/1996  | 20:30 | 10/2/1996  | 4:10  | 7.66    | 410  |  |
| 521 | 168 | Oak Creek #6 | 000* | 85  | D1 | 10/2/1996  | 7:00  | 10/2/1996  | 12:30 | 5.5     | 338  |  |
| 521 | 168 | Oak Creek #6 | 000* | 190 | D1 | 10/7/1996  | 19:35 | 10/8/1996  | 2:30  | 6.91    | 3112 |  |
| 521 | 168 | Oak Creek #6 | 000* | 100 | D1 | 10/10/1996 | 7:30  | 10/11/1996 | 3:00  | 19.5    | 3112 |  |
| 521 | 168 | Oak Creek #6 | 000* | 120 | D1 | 10/18/1996 | 7:30  | 10/18/1996 | 10:30 | 3       | 310  |  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/25/1996 | 2:36  | 10/25/1996 | 8:36  | 6       | 1799 |  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/25/1996 | 8:36  | 11/17/1996 | 22:50 | 566.23  | 1060 |  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 11/27/1996 | 13:58 | 11/27/1996 | 18:00 | 4.03    | 9900 |  |
| 521 | 168 | Oak Creek #6 | 000* | 140 | D1 | 12/2/1996  | 14:30 | 12/2/1996  | 15:10 | 0.66    | 3950 |  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 12/12/1996 | 4:59  | 12/16/1996 | 1:23  | 92.4    | 1060 |  |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 12/17/1996 | 2:25  | 12/23/1996 | 22:31 | 164.1   | 310  |  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 12/23/1996 | 22:31 | 12/25/1996 | 2:34  | 28.05   | 1060 |  |
| 521 | 168 | Oak Creek #6 | 000* | 180 | D1 | 12/25/1996 | 2:34  | 12/26/1996 | 5:15  | 26.68   | 310  |  |
| 521 | 168 | Oak Creek #6 | 00*0 | 150 | D1 | 1/16/1997  | 2:45  | 1/16/1997  | 13:30 | 10.75   | 250  | Pulverizer Feeder                                  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 1/24/1997  | 13:09 | 1/31/1997  | 23:59 | 178.83  | 4520 | Stator Windings                                    |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 2/1/1997   | 0:01  | 5/31/1997  | 22:40 | 2878.65 | 4520 | Rebuild 74 Mill Rollers                            |
| 521 | 168 | Oak Creek #6 | 00*0 | 120 | PD | 5/31/1997  | 22:40 | 6/2/1997   | 20:30 | 45.83   | 345  | Pulverizer Overhaul                                |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 7/7/1997   | 16:41 | 7/7/1997   | 18:06 | 1.41    | 4460 | Turbine Overspeed Trip Test                        |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 7/8/1997   | 0:13  | 7/12/1997  | 2:22  | 98.15   | 4610 | Hydrogen Cooling System Piping & Valves            |
| 521 | 168 | Oak Creek #6 | 00*0 | 130 | D1 | 7/22/1997  | 5:00  | 7/22/1997  | 6:50  | 1.83    | 8560 | Electrostatic Precipitator Problems                |
| 521 | 168 | Oak Creek #6 | 00*0 | 103 | D1 | 8/4/1997   | 23:00 | 8/6/1997   | 4:00  | 29      | 3112 | Condenser Tube Fouling                             |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/27/1997  | 23:34 | 9/28/1997  | 1:06  | 1.53    | 410  | Burner Problems                                    |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/13/1997 | 0:21  | 10/13/1997 | 1:03  | 0.7     | 410  | Burner Problems                                    |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 10/16/1997 | 21:38 | 10/21/1997 | 9:16  | 107.63  | 3110 | Condenser Tube Leak                                |
| 521 | 168 | Oak Creek #6 | 00*0 | 120 | D1 | 10/26/1997 | 10:00 | 10/26/1997 | 15:00 | 5       | 90   | 63 Mill Out of Service Due to Fire in Coal Silo    |
| 521 | 168 | Oak Creek #6 | 00*0 | 160 | D1 | 10/26/1997 | 15:00 | 10/27/1997 | 8:17  | 17.28   | 90   | 63 Mill out of Service Due to Fire in Coal Silo    |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 10/27/1997 | 8:17  | 10/31/1997 | 22:00 | 109.71  | 1060 | Boiler Tube Leak                                   |
| 521 | 168 | Oak Creek #6 | 00*0 | 110 | D1 | 11/3/1997  | 20:00 | 11/4/1997  | 6:20  | 10.33   | 340  | Pulverizer Exhauster Fan Drive - 63 Mill           |
| 521 | 168 | Oak Creek #6 | 00*0 | 110 | D1 | 11/4/1997  | 17:30 | 11/4/1997  | 19:00 | 1.5     | 110  | Other coal Supply Problems Up Through Coal Bunkers |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 11/8/1997  | 2:44  | 11/23/1997 | 6:54  | 364.16  | 540  | Reheat Steam Piping Up to Turbine Stop Valves      |
| 521 | 168 | Oak Creek #6 | 00*0 | 120 | D1 | 11/25/1997 | 4:30  | 11/25/1997 | 6:30  | 2       | 3420 | Feedwater Piping                                   |

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|     |     |              |      |     |    |            |       |            |       |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---|
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 12/3/1997  | 3:20  | 12/3/1997  | 3:51  | 0.51   | 410  | Burner Problems                         |
| 521 | 168 | Oak Creek #6 | 00*0 | 93  | D1 | 12/4/1997  | 6:00  | 12/5/1997  | 4:48  | 22.8   | 250  | Pulverizer Feeders                      |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 12/5/1997  | 4:48  | 12/5/1997  | 5:11  | 0.38   | 410  | Burner Problems                         |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 12/20/1997 | 17:28 | 12/30/1997 | 16:40 | 239.2  | 1040 | First Superheater                       |
| 521 | 168 | Oak Creek #6 | 00*0 | 190 | PD | 1/13/1998  | 16:00 | 1/17/1998  | 5:07  | 85.11  | 9250 | Test Burn 100% PRB Coal                 |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 1/17/1998  | 5:07  | 1/17/1998  | 5:43  | 0.6    | 4305 | Automatic Turbine Control System        |
| 521 | 168 | Oak Creek #6 | 00*0 | 190 | PD | 1/17/1998  | 5:43  | 1/23/1998  | 18:00 | 156.28 | 9250 | Mechanical Hydraulic                    |
| 521 | 168 | Oak Creek #6 | 00*0 | 120 | PD | 1/25/1998  | 0:01  | 1/25/1998  | 21:00 | 20.98  | 3503 | Test Burn 100% PRB Coal                 |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 2/10/1998  | 9:17  | 2/18/1998  | 9:04  | 191.78 | 1050 | Heater Drain Piping                     |
| 521 | 168 | Oak Creek #6 | 00*0 | 165 | D1 | 2/19/1998  | 7:45  | 2/24/1998  | 15:00 | 127.25 | 340  | Boiler Tube Leak                        |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 3/20/1998  | 18:17 | 3/20/1998  | 21:13 | 2.93   | 4302 | Other Pulverizer Problems               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 3/31/1998  | 8:13  | 3/31/1998  | 9:28  | 1.25   | 1799 | Other Turbine Control Problems          |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 4/3/1998   | 0:49  | 4/3/1998   | 1:13  | 0.4    | 410  | Boiler Tripped On Fan Excursion Suspect |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 4/29/1998  | 22:58 | 5/3/1998   | 10:58 | 84     | 8551 | Control Problem for Fans                |
| 521 | 168 | Oak Creek #6 | 00*0 | 196 | D1 | 5/4/1998   | 6:08  | 5/4/1998   | 8:00  | 1.86   | 4293 | Burner Problems                         |
| 521 | 168 | Oak Creek #6 | 00*0 | 135 | D1 | 5/8/1998   | 13:50 | 5/8/1998   | 15:30 | 1.66   | 250  | Repair Precipitator                     |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/27/1998  | 0:35  | 5/27/1998  | 1:29  | 0.9    | 410  | Hydraulic System Problems Sluggish      |
| 521 | 168 | Oak Creek #6 | 00*0 | 145 | D1 | 6/14/1998  | 15:42 | 6/14/1998  | 16:10 | 0.46   | 1411 | Unloader Valve                          |
| 521 | 168 | Oak Creek #6 | 00*0 | 220 | D1 | 7/5/1998   | 11:30 | 7/5/1998   | 17:00 | 5.5    | 3210 | 63 Feeder Trip                          |
| 521 | 168 | Oak Creek #6 | 00*0 | 130 | D1 | 8/4/1998   | 17:15 | 8/4/1998   | 21:00 | 3.75   | 310  | Other Burner Problems                   |
| 521 | 168 | Oak Creek #6 | 00*0 | 180 | D1 | 8/4/1998   | 21:14 | 8/4/1998   | 22:00 | 0.76   | 250  | Forced Draft Fan Drive Controls         |
| 521 | 168 | Oak Creek #6 | 00*0 | 220 | D1 | 8/5/1998   | 9:45  | 8/5/1998   | 19:00 | 9.25   | 110  | Curculating Water Pump                  |
| 521 | 168 | Oak Creek #6 | 00*0 | 220 | D1 | 8/6/1998   | 10:00 | 8/6/1998   | 18:51 | 8.85   | 110  | 63 Mill Trip                            |
| 521 | 168 | Oak Creek #6 | 00*0 | 150 | D1 | 8/6/1998   | 18:51 | 8/6/1998   | 20:30 | 1.65   | 340  | 63 Feeder Trip                          |
| 521 | 168 | Oak Creek #6 | 00*0 | 220 | D1 | 8/16/1998  | 7:00  | 8/16/1998  | 23:30 | 16.5   | 3199 | Wet Coal                                |
| 521 | 168 | Oak Creek #6 | 00*0 | 220 | D1 | 8/17/1998  | 8:00  | 8/17/1998  | 22:00 | 14     | 3199 | Wet Coal                                |
| 521 | 168 | Oak Creek #6 | 00*0 | 220 | D1 | 8/18/1998  | 6:00  | 8/19/1998  | 23:30 | 41.5   | 3199 | 62A Exhauster Coal Leak                 |
| 521 | 168 | Oak Creek #6 | 00*0 | 150 | D1 | 8/23/1998  | 7:45  | 8/24/1998  | 2:45  | 19     | 300  | Condenser Back Pressure                 |
| 521 | 168 | Oak Creek #6 | 00*0 | 180 | D1 | 8/24/1998  | 16:30 | 8/27/1998  | 6:55  | 62.41  | 60   | Condenser Back Pressure                 |
| 521 | 168 | Oak Creek #6 | 00*0 | 130 | D1 | 8/27/1998  | 6:55  | 8/27/1998  | 7:30  | 0.58   | 3441 | Pulverizer Motor and Drives             |
| 521 | 168 | Oak Creek #6 | 00*0 | 225 | D1 | 8/27/1998  | 7:30  | 8/31/1998  | 5:00  | 93.5   | 3199 | Coal Crushers Including Motor           |
| 521 | 168 | Oak Creek #6 | 00*0 | 150 | D1 | 9/2/1998   | 10:25 | 9/2/1998   | 12:50 | 2.41   | 3441 | Feedwater Heater                        |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 9/4/1998   | 22:12 | 9/8/1998   | 11:58 | 85.76  | 1000 | Condenser Back Pressure                 |
| 521 | 168 | Oak Creek #6 | 00*0 | 160 | D3 | 9/11/1998  | 22:00 | 9/13/1998  | 16:15 | 42.25  | 330  | 7A High Pressure Htr Level High         |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/14/1998  | 8:04  | 9/14/1998  | 11:56 | 3.86   | 3261 | Repair Tube Leak                        |
| 521 | 168 | Oak Creek #6 | 00*0 | 190 | D1 | 9/14/1998  | 11:56 | 9/14/1998  | 23:00 | 11.06  | 1850 | 62 Exhauster - Leak Repair              |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/15/1998  | 15:45 | 9/15/1998  | 18:00 | 2.25   | 3261 | Traveling Screen Fouling                |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 9/17/1998  | 18:40 | 9/17/1998  | 20:31 | 1.85   | 410  | Boiler Water Condition                  |
| 521 | 168 | Oak Creek #6 | 00*0 | 125 | D1 | 9/18/1998  | 10:25 | 9/18/1998  | 11:30 | 1.08   | 3509 | Traveling Screen Fouling                |
| 521 | 168 | Oak Creek #6 | 00*0 | 180 | D1 | 9/21/1998  | 13:35 | 9/21/1998  | 23:59 | 10.4   | 8550 | Burner Problems                         |
| 521 | 168 | Oak Creek #6 | 00*0 | 230 | D1 | 9/22/1998  | 8:18  | 9/25/1998  | 13:40 | 77.36  | 8550 | Other Heater Drain System Problems      |
| 521 | 168 | Oak Creek #6 | 00*0 | 210 | D1 | 10/8/1998  | 14:11 | 10/9/1998  | 6:30  | 16.31  | 8550 | Precip Fouling                          |
| 521 | 168 | Oak Creek #6 | 00*0 | 115 | D1 | 10/9/1998  | 16:30 | 10/10/1998 | 1:05  | 8.58   | 1850 | Precip Fouling                          |
|     |     |              |      |     |    |            |       |            |       |        |      | High Silica in Boiler Water             |

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|     |     |              |      |     |    |            |       |            |       |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---|
| 521 | 168 | Oak Creek #6 | *    |     | U3 | 10/10/1998 | 1:05  | 10/10/1998 | 8:05  | 7      | 8550 | Precip Fouling  |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 10/23/1998 | 22:09 | 10/26/1998 | 21:12 | 71.05  | 8590 | Install Trailing Edge Rappers in Precips                        |
| 521 | 168 | Oak Creek #6 | *    |     | U3 | 10/28/1998 | 23:35 | 11/2/1998  | 12:38 | 109.05 | 4613 | Low Speed Generator-Inboard Hydrogen Seal Has Excessive Leakage |
| 521 | 168 | Oak Creek #6 | 00*0 | 125 | D1 | 11/3/1998  | 8:00  | 11/3/1998  | 10:27 | 2.45   | 385  | Igniters  |
| 521 | 168 | Oak Creek #6 | 00*0 | 145 | D1 | 11/14/1998 | 14:15 | 11/14/1998 | 21:30 | 7.25   | 3431 | Feedwater Heater Valves   |
| 521 | 168 | Oak Creek #6 | 00*0 | 120 | D1 | 11/19/1998 | 5:00  | 11/20/1998 | 20:48 | 39.8   | 3440 | 64A Feedwater Htr Leak  |
| 521 | 168 | Oak Creek #6 | *    |     | U2 | 11/20/1998 | 20:48 | 11/22/1998 | 23:34 | 50.76  | 400  | Burner Windbox Fire At IBI Burner                               |
| 521 | 168 | Oak Creek #6 | 00*0 | 160 | D1 | 11/23/1998 | 9:00  | 11/23/1998 | 15:00 | 6      | 330  | Pulverizer Coal Leak  |
| 521 | 168 | Oak Creek #6 | 00*0 | 160 | D1 | 12/6/1998  | 14:31 | 12/7/1998  | 4:54  | 14.38  | 8550 | Precip Fouling  |
| 521 | 168 | Oak Creek #6 | 00*0 | 225 | D1 | 12/7/1998  | 4:54  | 12/19/1998 | 0:01  | 283.11 | 8550 | Precip Fouling  |
| 521 | 168 | Oak Creek #6 | 00*0 | 230 | D1 | 12/21/1998 | 7:00  | 12/21/1998 | 7:01  | 1      | 8550 | Precip Fouling  |
| 521 | 168 | Oak Creek #6 | *    | 170 | D1 | 1/4/1999   | 5:40  | 1/5/1999   | 4:50  | 23.16  | 253  | Pulverizer Feeder   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 1/8/1999   | 17:53 | 1/11/1999  | 2:35  | 56.7   | 1080 | Economizer  |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 1/15/1999  | 1:42  | 1/18/1999  | 15:50 | 86.13  | 1140 | Superheater Leak  |
| 521 | 168 | Oak Creek #6 | *    | 91  | D1 | 1/18/1999  | 19:19 | 1/23/1999  | 14:30 | 115.18 | 1412 | 62 FD Fan Transformer Overheating                               |
| 521 | 168 | Oak Creek #6 | *    | 110 | D1 | 1/24/1999  | 7:40  | 1/28/1999  | 6:00  | 94.33  | 8656 | Precipitator Fouling High Opacity                               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 2/5/1999   | 4:00  | 2/5/1999   | 4:34  | 0.56   | 4302 | Turbine Trip Devices  |
| 521 | 168 | Oak Creek #6 | *    | 175 | D1 | 2/23/1999  | 13:00 | 2/24/1999  | 5:30  | 16.5   | 8656 | Precipitator Fouling  |
| 521 | 168 | Oak Creek #6 | *    | 120 | D1 | 2/25/1999  | 14:00 | 2/25/1999  | 18:00 | 4      | 8656 | Precipitator Fouling  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 2/26/1999  | 0:03  | 2/26/1999  | 0:21  | 0.3    | 4302 | Turbine Trip Device   |
| 521 | 168 | Oak Creek #6 | *    | 220 | D1 | 3/4/1999   | 7:00  | 3/4/1999   | 23:50 | 16.83  | 8656 | Precip Fouling  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 3/4/1999   | 23:50 | 3/5/1999   | 0:28  | 0.63   | 3299 | Unit Trip - Loss of Aux Cond Vacuum                             |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 3/13/1999  | 0:25  | 4/24/1999  | 15:49 | 1023.4 | 1800 | Planned Maintenance Outage                                      |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 4/24/1999  | 17:22 | 4/24/1999  | 19:02 | 1.66   | 1750 | Loss of 62 Mill Due to Flame Scanner                            |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 4/27/1999  | 0:40  | 5/2/1999   | 13:04 | 132.39 | 3431 | Repair Feedwater Tie Valves (U5 to U6)                          |
| 521 | 168 | Oak Creek #6 | *    | 125 | D1 | 5/10/1999  | 17:45 | 5/11/1999  | 4:00  | 10.25  | 330  | Pulverizer Coal Leak  |
| 521 | 168 | Oak Creek #6 | *    | 95  | D1 | 5/15/1999  | 9:00  | 5/16/1999  | 19:03 | 34.05  | 3150 | Hotwell Level Controls  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/19/1999  | 5:41  | 5/19/1999  | 6:28  | 0.78   | 3299 | Unit Trip Loss of Aux Cond Vacuum                               |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 5/26/1999  | 12:00 | 5/26/1999  | 14:00 | 2      | 3261 | Traveling Water Screen Fouling                                  |
| 521 | 168 | Oak Creek #6 | *    | 135 | D1 | 6/3/1999   | 8:30  | 6/3/1999   | 13:00 | 4.5    | 3431 | Feedwater Heater Relief Valve                                   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/5/1999   | 3:28  | 6/5/1999   | 4:27  | 0.98   | 3653 | UPS power to Service Building                                   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 6/5/1999   | 4:34  | 6/5/1999   | 4:46  | 0.2    | 380  | 2A Exhauster - Flame Failure                                    |
| 521 | 168 | Oak Creek #6 | *    | 215 | D1 | 6/7/1999   | 7:00  | 6/9/1999   | 0:23  | 41.38  | 1350 | High Steam Temp - Back Pass Plugging                            |
| 521 | 168 | Oak Creek #6 | *    |     | MO | 6/9/1999   | 0:23  | 6/9/1999   | 5:33  | 5.16   | 520  | Other Main Steam Valves   |
| 521 | 168 | Oak Creek #6 | *    | 185 | D1 | 6/9/1999   | 5:33  | 6/9/1999   | 13:30 | 7.95   | 1350 | High Steam Temp - Back Pass Plugging                            |
| 521 | 168 | Oak Creek #6 | *    | 235 | D1 | 6/9/1999   | 13:30 | 6/9/1999   | 22:00 | 8.5    | 1350 | High Steam Temp - Back Pass Plugging                            |
| 521 | 168 | Oak Creek #6 | *    | 235 | D1 | 6/10/1999  | 6:00  | 6/10/1999  | 13:35 | 7.58   | 1350 | High Superheat Temperatures                                     |
| 521 | 168 | Oak Creek #6 | *    |     | PO | 6/19/1999  | 22:00 | 6/20/1999  | 15:00 | 17     | 3110 | Condenser Tube Leak   |
| 521 | 168 | Oak Creek #6 | *    | 150 | D1 | 6/21/1999  | 7:30  | 6/22/1999  | 8:05  | 24.58  | 300  | 63 Mill Motor Electrical Problems                               |
| 521 | 168 | Oak Creek #6 | *    | 215 | D1 | 7/4/1999   | 9:20  | 7/5/1999   | 9:00  | 23.66  | 3521 | Extraction Steam Valves   |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 7/9/1999   | 14:45 | 7/10/1999  | 18:30 | 27.75  | 8590 | Other Precipitator Problems                                     |
| 521 | 168 | Oak Creek #6 | *    |     | RS | 7/10/1999  | 18:30 | 7/11/1999  | 13:49 | 19.31  | 0    | Reserve Shutdown  |
| 521 | 168 | Oak Creek #6 | *    |     | U1 | 7/20/1999  | 3:39  | 7/20/1999  | 4:17  | 0.63   | 4302 | Turbine Trip Devices  |
| 521 | 168 | Oak Creek #6 | *    | 200 | D1 | 7/24/1999  | 6:00  | 7/24/1999  | 21:00 | 15     | 300  | Pulverizer Drives   |
| 521 | 168 | Oak Creek #6 | *    | 145 | D1 | 8/13/1999  | 20:17 | 8/13/1999  | 21:30 | 1.21   | 3261 | Traveling Water Screen Fouling                                  |



|     |     |              |   |     |    |            |       |            |       |        |      |   |
|-----|-----|--------------|---|-----|----|------------|-------|------------|-------|--------|------|---|
| 521 | 168 | Oak Creek #6 | * |     | MO | 8/14/1999  | 1:48  | 8/16/1999  | 6:55  | 53.11  | 3529 | Extraction Steam Valves                           |
| 521 | 168 | Oak Creek #6 | * | 80  | D1 | 8/17/1999  | 8:11  | 8/17/1999  | 12:00 | 3.81   | 3261 | Traveling Water Screen Fouling                    |
| 521 | 168 | Oak Creek #6 | * |     | RS | 9/10/1999  | 21:43 | 9/25/1999  | 22:40 | 360.95 | 0    | Reserve Shutdown                                  |
| 521 | 168 | Oak Creek #6 | * | 95  | D1 | 9/26/1999  | 6:00  | 9/27/1999  | 12:10 | 30.16  | 1455 | 61 ID Fan Tripping                                |
| 521 | 168 | Oak Creek #6 | * | 110 | D1 | 9/27/1999  | 18:25 | 9/28/1999  | 4:00  | 9.58   | 1455 | 61 ID Fan Tripping                                |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 10/3/1999  | 4:55  | 10/3/1999  | 5:30  | 0.58   | 4460 | Turbine Trip During Oil Trip Test                 |
| 521 | 168 | Oak Creek #6 | * |     | MO | 10/16/1999 | 21:36 | 10/17/1999 | 22:57 | 25.35  | 3521 | Extraction Steam Valves                           |
| 521 | 168 | Oak Creek #6 | * | 150 | D1 | 10/19/1999 | 9:30  | 10/19/1999 | 15:15 | 5.75   | 340  | 62A Exhauster Balancing                           |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 11/6/1999  | 3:05  | 11/6/1999  | 3:48  | 0.71   | 360  | Burners   |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 12/5/1999  | 3:32  | 12/5/1999  | 3:55  | 0.38   | 4302 | Turbine Trip - Oil Trip Test                      |
| 521 | 168 | Oak Creek #6 | * | 170 | PD | 12/15/1999 | 6:00  | 12/21/1999 | 1:23  | 139.38 | 300  | Pulverizer Work On Pinion and Motor               |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 12/21/1999 | 1:23  | 12/21/1999 | 5:59  | 4.6    | 3659 | Coil Failure on DCS Uninterruptable Power Supply  |
| 521 | 168 | Oak Creek #6 | * |     | U3 | 12/24/1999 | 23:14 | 12/26/1999 | 23:52 | 48.63  | 4279 | Miscellaneous Turbine Piping                      |
| 521 | 168 | Oak Creek #6 | * |     | U1 | 12/27/1999 | 12:09 | 12/30/1999 | 23:00 | 82.85  | 1030 | Water Tube Leak On Division Wall Between 3&4 Cell |
| 521 | 168 | Oak Creek #6 | * |     | RS | 12/30/1999 | 23:01 | 12/31/1999 | 23:59 | 24.96  | 0    | Reserve Shutdown                                  |
| 521 | 178 | Oak Creek #7 |   | 269 | D1 | 1/1/1975   | 0:01  | 1/6/1975   | 3:00  | 122.98 | 3410 |   |
| 521 | 178 | Oak Creek #7 |   |     | U1 | 1/4/1975   | 23:00 | 1/5/1975   | 3:33  | 4.55   | 8560 |   |
| 521 | 178 | Oak Creek #7 |   | 234 | D1 | 1/9/1975   | 22:00 | 1/10/1975  | 6:40  | 8.66   | 340  |   |
| 521 | 178 | Oak Creek #7 |   |     | MO | 1/10/1975  | 23:28 | 1/11/1975  | 19:25 | 19.95  | 620  |   |
| 521 | 178 | Oak Creek #7 |   | 244 | D1 | 1/20/1975  | 1:00  | 1/20/1975  | 13:00 | 12     | 3999 |   |
| 521 | 178 | Oak Creek #7 |   | 224 | D1 | 1/21/1975  | 6:55  | 1/21/1975  | 11:30 | 4.58   | 340  |   |
| 521 | 178 | Oak Creek #7 |   | 224 | D1 | 2/2/1975   | 2:30  | 2/3/1975   | 6:45  | 28.25  | 3999 |   |
| 521 | 178 | Oak Creek #7 |   | 234 | PD | 2/10/1975  | 2:00  | 2/10/1975  | 4:40  | 2.66   | 3999 |   |
| 521 | 178 | Oak Creek #7 |   | 229 | D1 | 2/12/1975  | 2:00  | 2/17/1975  | 9:00  | 127    | 340  |   |
| 521 | 178 | Oak Creek #7 |   | 169 | D1 | 2/12/1975  | 10:00 | 2/13/1975  | 5:00  | 19     | 340  |   |
| 521 | 178 | Oak Creek #7 |   | 164 | PD | 2/15/1975  | 13:30 | 2/17/1975  | 9:00  | 43.5   | 340  |   |
| 521 | 178 | Oak Creek #7 |   |     | U1 | 2/16/1975  | 0:12  | 2/16/1975  | 7:38  | 7.43   | 8560 |   |
| 521 | 178 | Oak Creek #7 |   | 219 | PD | 2/17/1975  | 9:00  | 2/25/1975  | 4:00  | 187    | 340  |   |
| 521 | 178 | Oak Creek #7 |   | 154 | D1 | 2/17/1975  | 12:00 | 2/17/1975  | 12:30 | 0.5    | 340  |   |
| 521 | 178 | Oak Creek #7 |   | 119 | D1 | 2/17/1975  | 22:00 | 2/17/1975  | 23:45 | 1.75   | 340  |   |
| 521 | 178 | Oak Creek #7 |   | 184 | PD | 2/19/1975  | 11:55 | 2/20/1975  | 2:39  | 14.73  | 340  |   |
| 521 | 178 | Oak Creek #7 |   | 149 | D1 | 3/6/1975   | 5:00  | 3/7/1975   | 22:19 | 41.31  | 1100 |   |
| 521 | 178 | Oak Creek #7 |   |     | MO | 3/7/1975   | 22:19 | 3/10/1975  | 1:11  | 50.86  | 1100 |   |
| 521 | 178 | Oak Creek #7 |   | 234 | PD | 3/11/1975  | 0:01  | 3/16/1975  | 20:00 | 139.98 | 340  |   |
| 521 | 178 | Oak Creek #7 |   | 224 | D1 | 3/18/1975  | 22:00 | 3/19/1975  | 7:30  | 9.5    | 340  |   |
| 521 | 178 | Oak Creek #7 |   | 149 | PD | 3/20/1975  | 0:01  | 3/20/1975  | 13:10 | 13.15  | 1455 |   |
| 521 | 178 | Oak Creek #7 |   | 234 | D1 | 3/20/1975  | 13:10 | 3/20/1975  | 20:20 | 7.16   | 340  |   |
| 521 | 178 | Oak Creek #7 |   | 234 | D1 | 3/22/1975  | 6:00  | 3/22/1975  | 19:15 | 13.25  | 340  |   |
| 521 | 178 | Oak Creek #7 |   | 234 | PD | 3/25/1975  | 0:30  | 3/31/1975  | 4:25  | 147.91 | 340  |   |
| 521 | 178 | Oak Creek #7 |   | 134 | D1 | 3/27/1975  | 3:00  | 3/28/1975  | 4:30  | 25.5   | 1455 |   |
| 521 | 178 | Oak Creek #7 |   | 134 | D1 | 4/1/1975   | 11:50 | 4/2/1975   | 1:45  | 13.91  | 1455 |   |
| 521 | 178 | Oak Creek #7 |   | 134 | D1 | 4/2/1975   | 5:20  | 4/2/1975   | 8:05  | 2.75   | 1455 |   |
| 521 | 178 | Oak Creek #7 |   | 149 | D1 | 4/3/1975   | 16:00 | 4/5/1975   | 0:36  | 32.59  | 1100 |   |
| 521 | 178 | Oak Creek #7 |   |     | U1 | 4/5/1975   | 0:36  | 4/6/1975   | 23:57 | 47.35  | 850  |   |

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|     |     |              |     |    |            |       |            |       |         |      |
|-----|-----|--------------|-----|----|------------|-------|------------|-------|---------|------|
| 521 | 178 | Oak Creek #7 | 149 | D1 | 4/6/1975   | 10:30 | 4/6/1975   | 15:45 | 5.25    | 1400 |
| 521 | 178 | Oak Creek #7 | 134 | D1 | 4/7/1975   | 0:05  | 4/7/1975   | 1:30  | 1.41    | 1455 |
| 521 | 178 | Oak Creek #7 | 134 | D1 | 4/7/1975   | 1:30  | 4/7/1975   | 5:20  | 3.83    | 340  |
| 521 | 178 | Oak Creek #7 | 224 | D1 | 4/10/1975  | 16:05 | 4/10/1975  | 17:30 | 1.41    | 340  |
| 521 | 178 | Oak Creek #7 | 134 | D1 | 4/11/1975  | 2:00  | 4/11/1975  | 5:40  | 3.66    | 1486 |
| 521 | 178 | Oak Creek #7 |     | U1 | 4/13/1975  | 16:30 | 4/14/1975  | 5:29  | 12.98   | 1040 |
| 521 | 178 | Oak Creek #7 | 239 | PD | 4/15/1975  | 21:00 | 4/16/1975  | 0:30  | 3.5     | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 4/24/1975  | 20:20 | 4/26/1975  | 3:43  | 31.38   | 1000 |
| 521 | 178 | Oak Creek #7 |     | PO | 4/26/1975  | 22:13 | 7/13/1975  | 18:00 | 1867.78 | 1999 |
| 521 | 178 | Oak Creek #7 | 224 | D1 | 4/30/1975  | 0:01  | 4/30/1975  | 5:00  | 4.98    | 340  |
| 521 | 178 | Oak Creek #7 | 133 | D1 | 7/13/1975  | 18:00 | 7/15/1975  | 5:00  | 35      | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/17/1975  | 19:19 | 7/19/1975  | 16:10 | 44.85   | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/20/1975  | 0:56  | 7/20/1975  | 11:45 | 10.81   | 4420 |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/23/1975  | 14:00 | 8/18/1975  | 7:00  | 617     | 1730 |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/18/1975  | 20:16 | 8/20/1975  | 18:20 | 46.06   | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/24/1975  | 1:34  | 8/24/1975  | 13:21 | 11.78   | 1000 |
| 521 | 178 | Oak Creek #7 | 213 | D1 | 8/26/1975  | 8:00  | 8/26/1975  | 9:00  | 1       | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/28/1975  | 0:58  | 8/28/1975  | 19:43 | 18.75   | 1000 |
| 521 | 178 | Oak Creek #7 | 208 | D1 | 9/3/1975   | 7:15  | 9/4/1975   | 1:30  | 18.25   | 340  |
| 521 | 178 | Oak Creek #7 | 223 | D1 | 9/9/1975   | 11:23 | 9/9/1975   | 12:50 | 1.45    | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 9/13/1975  | 23:48 | 9/14/1975  | 6:10  | 6.36    | 8560 |
| 521 | 178 | Oak Creek #7 | 233 | D1 | 9/15/1975  | 19:15 | 9/16/1975  | 11:00 | 15.75   | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 9/18/1975  | 17:11 | 9/19/1975  | 19:07 | 25.93   | 1000 |
| 521 | 178 | Oak Creek #7 | 223 | D1 | 9/22/1975  | 21:30 | 9/23/1975  | 4:30  | 7       | 340  |
| 521 | 178 | Oak Creek #7 | 228 | D1 | 9/23/1975  | 11:45 | 9/23/1975  | 21:00 | 9.25    | 340  |
| 521 | 178 | Oak Creek #7 | 228 | D1 | 9/30/1975  | 23:00 | 10/1/1975  | 14:30 | 15.5    | 3999 |
| 521 | 178 | Oak Creek #7 | 153 | D1 | 10/1/1975  | 23:30 | 10/2/1975  | 6:15  | 6.75    | 340  |
| 521 | 178 | Oak Creek #7 | 228 | D1 | 10/2/1975  | 6:15  | 10/3/1975  | 2:50  | 20.58   | 3999 |
| 521 | 178 | Oak Creek #7 |     | MO | 10/8/1975  | 2:10  | 10/13/1975 | 11:15 | 129.08  | 4301 |
| 521 | 178 | Oak Creek #7 | 233 | D1 | 10/18/1975 | 19:45 | 10/18/1975 | 20:40 | 0.91    | 340  |
| 521 | 178 | Oak Creek #7 | 228 | D1 | 10/21/1975 | 17:15 | 10/21/1975 | 19:45 | 2.5     | 1005 |
| 521 | 178 | Oak Creek #7 | 228 | D1 | 10/21/1975 | 19:45 | 10/21/1975 | 20:45 | 1       | 1005 |
| 521 | 178 | Oak Creek #7 | 228 | D1 | 10/21/1975 | 20:45 | 10/22/1975 | 5:30  | 8.75    | 1005 |
| 521 | 178 | Oak Creek #7 | 223 | D1 | 10/24/1975 | 10:45 | 10/24/1975 | 11:35 | 0.83    | 340  |
| 521 | 178 | Oak Creek #7 | 223 | D1 | 10/24/1975 | 14:15 | 10/24/1975 | 20:00 | 5.75    | 3999 |
| 521 | 178 | Oak Creek #7 | 223 | D1 | 10/27/1975 | 15:31 | 11/1/1975  | 20:30 | 124.98  | 3999 |
| 521 | 178 | Oak Creek #7 |     | U1 | 11/7/1975  | 23:21 | 11/9/1975  | 8:38  | 33.28   | 1100 |
| 521 | 178 | Oak Creek #7 | 234 | D1 | 11/15/1975 | 7:45  | 11/15/1975 | 9:30  | 1.75    | 3999 |
| 521 | 178 | Oak Creek #7 | 224 | D1 | 11/16/1975 | 1:28  | 11/16/1975 | 10:45 | 9.28    | 340  |
| 521 | 178 | Oak Creek #7 | 224 | D1 | 11/17/1975 | 23:45 | 11/18/1975 | 1:45  | 2       | 3999 |
| 521 | 178 | Oak Creek #7 | 234 | D1 | 11/20/1975 | 1:00  | 11/20/1975 | 5:10  | 4.16    | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 11/20/1975 | 19:37 | 11/21/1975 | 15:26 | 19.81   | 1000 |
| 521 | 178 | Oak Creek #7 | 229 | D1 | 11/24/1975 | 16:30 | 11/24/1975 | 21:50 | 5.33    | 340  |
| 521 | 178 | Oak Creek #7 | 220 | D1 | 11/30/1975 | 15:15 | 12/1/1975  | 3:30  | 36.25   | 3999 |
| 521 | 178 | Oak Creek #7 | 234 | D1 | 12/2/1975  | 2:30  | 12/2/1975  | 3:20  | 0.83    | 340  |
| 521 | 178 | Oak Creek #7 | 215 | D1 | 12/3/1975  | 1:00  | 12/3/1975  | 14:26 | 13.43   | 340  |

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|     |     |              |     |    |            |       |            |          |        |      |
|-----|-----|--------------|-----|----|------------|-------|------------|----------|--------|------|
| 521 | 178 | Oak Creek #7 | 209 | D1 | 12/4/1975  | 0:30  | 12/4/1975  | 6:00     | 5.5    | 340  |
| 521 | 178 | Oak Creek #7 | 110 | D1 | 12/4/1975  | 12:15 | 12/4/1975  | 14:23    | 2.13   | 1486 |
| 521 | 178 | Oak Creek #7 | 245 | D1 | 12/4/1975  | 23:20 | 12/5/1975  | 6:25     | 7.08   | 340  |
| 521 | 178 | Oak Creek #7 | 230 | D1 | 12/5/1975  | 14:15 | 12/5/1975  | 23:48    | 9.55   | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 12/5/1975  | 23:48 | 12/7/1975  | 23:03    | 47.25  | 1040 |
| 521 | 178 | Oak Creek #7 | 230 | D1 | 12/7/1975  | 23:03 | 12/8/1975  | 8:00     | 8.95   | 340  |
| 521 | 178 | Oak Creek #7 | 183 | D1 | 12/7/1975  | 23:04 | 12/8/1975  | 8:00     | 8.93   | 340  |
| 521 | 178 | Oak Creek #7 | 220 | D1 | 12/8/1975  | 23:45 | 12/9/1975  | 6:15     | 6.5    | 1486 |
| 521 | 178 | Oak Creek #7 | 116 | PD | 12/13/1975 | 22:30 | 12/15/1975 | 22:25    | 47.91  | 1486 |
| 521 | 178 | Oak Creek #7 |     | U1 | 12/20/1975 | 0:26  | 12/20/1975 | 5:51     | 5.41   | 8560 |
| 521 | 178 | Oak Creek #7 |     | U1 | 12/26/1975 | 0:07  | 12/27/1975 | 1:52     | 25.75  | 1000 |
| 521 | 178 | Oak Creek #7 | 232 | D1 | 12/28/1975 | 16:30 | 12/31/1975 | 24:00:00 | 79.5   | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 12/28/1975 | 12:04 | 12/29/1975 | 1:50     | 13.76  | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 12/29/1975 | 9:47  | 12/31/1975 | 24:00:00 | 62.21  | 1730 |
| 521 | 178 | Oak Creek #7 |     | U1 | 1/1/1976   | 0:01  | 1/2/1976   | 13:50    | 37.81  | 1730 |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 1/1/1976   | 0:01  | 1/11/1976  | 0:30     | 240.48 | 340  |
| 521 | 178 | Oak Creek #7 | 238 | D1 | 1/11/1976  | 8:30  | 1/11/1976  | 17:05    | 8.58   | 340  |
| 521 | 178 | Oak Creek #7 | 247 | D1 | 1/11/1976  | 19:55 | 1/11/1976  | 22:14    | 2.31   | 3999 |
| 521 | 178 | Oak Creek #7 | 247 | PD | 1/12/1976  | 0:30  | 1/12/1976  | 5:50     | 5.33   | 340  |
| 521 | 178 | Oak Creek #7 | 232 | PD | 1/13/1976  | 0:01  | 1/13/1976  | 4:30     | 4.48   | 340  |
| 521 | 178 | Oak Creek #7 | 242 | D1 | 1/13/1976  | 9:30  | 1/13/1976  | 11:45    | 2.25   | 340  |
| 521 | 178 | Oak Creek #7 | 140 | D1 | 1/20/1976  | 1:10  | 1/20/1976  | 6:00     | 4.83   | 1486 |
| 521 | 178 | Oak Creek #7 | 140 | D1 | 1/21/1976  | 0:01  | 1/21/1976  | 6:30     | 6.48   | 1486 |
| 521 | 178 | Oak Creek #7 | 140 | D1 | 1/21/1976  | 22:00 | 1/22/1976  | 6:15     | 8.25   | 1486 |
| 521 | 178 | Oak Creek #7 | 251 | D1 | 1/22/1976  | 9:30  | 1/22/1976  | 23:00    | 13.5   | 9270 |
| 521 | 178 | Oak Creek #7 | 140 | D1 | 1/23/1976  | 0:01  | 1/23/1976  | 6:50     | 6.81   | 1486 |
| 521 | 178 | Oak Creek #7 |     | U1 | 1/23/1976  | 23:48 | 1/25/1976  | 0:48     | 25     | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 2/1/1976   | 16:13 | 2/2/1976   | 15:32    | 23.31  | 1000 |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 2/3/1976   | 0:01  | 2/8/1976   | 5:15     | 125.23 | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 2/14/1976  | 0:24  | 2/16/1976  | 8:33     | 56.15  | 1040 |
| 521 | 178 | Oak Creek #7 |     | U1 | 2/19/1976  | 0:12  | 2/21/1976  | 6:09     | 53.95  | 1040 |
| 521 | 178 | Oak Creek #7 | 210 | D1 | 2/21/1976  | 3:00  | 5/2/1976   | 11:00    | 1688   | 740  |
| 521 | 178 | Oak Creek #7 |     | U1 | 2/25/1976  | 4:05  | 2/26/1976  | 3:59     | 23.9   | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 3/1/1976   | 12:51 | 3/2/1976   | 6:23     | 17.53  | 8580 |
| 521 | 178 | Oak Creek #7 | 130 | D1 | 3/19/1976  | 3:00  | 3/19/1976  | 5:45     | 2.75   | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 3/21/1976  | 1:20  | 3/22/1976  | 8:15     | 30.91  | 1000 |
| 521 | 178 | Oak Creek #7 |     | MO | 3/30/1976  | 0:24  | 3/30/1976  | 5:44     | 5.33   | 8580 |
| 521 | 178 | Oak Creek #7 |     | U1 | 3/30/1976  | 7:28  | 3/30/1976  | 8:01     | 0.55   | 3844 |
| 521 | 178 | Oak Creek #7 |     | U1 | 4/2/1976   | 1:01  | 4/3/1976   | 17:02    | 40.01  | 1000 |
| 521 | 178 | Oak Creek #7 |     | PO | 4/14/1976  | 0:10  | 4/29/1976  | 9:29     | 369.31 | 1999 |
| 521 | 178 | Oak Creek #7 | 140 | D1 | 4/29/1976  | 11:00 | 4/29/1976  | 18:00    | 7      | 1486 |
| 521 | 178 | Oak Creek #7 | 140 | PD | 5/1/1976   | 0:01  | 5/1/1976   | 9:00     | 8.98   | 1486 |
| 521 | 178 | Oak Creek #7 | 140 | PD | 5/2/1976   | 0:01  | 5/2/1976   | 9:30     | 9.48   | 1486 |
| 521 | 178 | Oak Creek #7 | 246 | D1 | 5/2/1976   | 11:00 | 5/4/1976   | 3:15     | 40.25  | 1999 |
| 521 | 178 | Oak Creek #7 | 140 | D1 | 5/8/1976   | 0:30  | 5/9/1976   | 13:30    | 37     | 1400 |
| 521 | 178 | Oak Creek #7 | 247 | PD | 5/9/1976   | 13:30 | 5/9/1976   | 16:05    | 2.58   | 340  |

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|     |     |              |     |    |            |       |            |       |        |      |
|-----|-----|--------------|-----|----|------------|-------|------------|-------|--------|------|
| 521 | 178 | Oak Creek #7 | 200 | PD | 5/10/1976  | 23:45 | 5/11/1976  | 5:48  | 6.05   | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 5/11/1976  | 22:02 | 5/12/1976  | 4:13  | 6.18   | 8560 |
| 521 | 178 | Oak Creek #7 |     | U1 | 5/18/1976  | 23:51 | 5/19/1976  | 5:17  | 5.43   | 8580 |
| 521 | 178 | Oak Creek #7 | 232 | D1 | 5/28/1976  | 23:15 | 5/29/1976  | 4:45  | 5.5    | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/1/1976   | 12:02 | 6/3/1976   | 8:35  | 44.55  | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/11/1976  | 23:25 | 6/12/1976  | 4:09  | 4.73   | 8560 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/18/1976  | 1:10  | 6/18/1976  | 6:42  | 5.53   | 8560 |
| 521 | 178 | Oak Creek #7 | 140 | D1 | 6/26/1976  | 0:30  | 6/27/1976  | 13:00 | 36.5   | 1455 |
| 521 | 178 | Oak Creek #7 |     | MO | 7/2/1976   | 0:39  | 7/5/1976   | 21:20 | 92.68  | 9720 |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 7/6/1976   | 2:30  | 7/6/1976   | 23:30 | 21     | 340  |
| 521 | 178 | Oak Creek #7 | 140 | D1 | 7/10/1976  | 2:00  | 7/11/1976  | 3:00  | 25     | 1455 |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 7/15/1976  | 0:01  | 7/15/1976  | 4:00  | 3.98   | 340  |
| 521 | 178 | Oak Creek #7 | 170 | D1 | 7/15/1976  | 2:00  | 7/16/1976  | 2:00  | 24     | 340  |
| 521 | 178 | Oak Creek #7 | 241 | D1 | 7/16/1976  | 2:00  | 7/16/1976  | 9:00  | 7      | 340  |
| 521 | 178 | Oak Creek #7 | 240 | PD | 7/18/1976  | 16:30 | 7/18/1976  | 20:00 | 3.5    | 340  |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 7/23/1976  | 4:00  | 7/23/1976  | 12:05 | 8.08   | 340  |
| 521 | 178 | Oak Creek #7 | 251 | D1 | 8/3/1976   | 6:30  | 8/3/1976   | 6:45  | 0.25   | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/3/1976   | 22:27 | 8/5/1976   | 7:43  | 33.26  | 1000 |
| 521 | 178 | Oak Creek #7 | 250 | D1 | 8/5/1976   | 1:30  | 8/5/1976   | 6:25  | 4.91   | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/8/1976   | 6:07  | 8/8/1976   | 13:35 | 7.46   | 8560 |
| 521 | 178 | Oak Creek #7 | 240 | PD | 8/10/1976  | 8:00  | 8/10/1976  | 10:45 | 2.75   | 340  |
| 521 | 178 | Oak Creek #7 | 141 | D1 | 8/10/1976  | 17:30 | 8/10/1976  | 19:45 | 2.25   | 1455 |
| 521 | 178 | Oak Creek #7 | 140 | PD | 8/14/1976  | 6:30  | 8/14/1976  | 18:30 | 12     | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/18/1976  | 16:31 | 8/20/1976  | 0:47  | 32.26  | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/23/1976  | 22:22 | 8/24/1976  | 6:00  | 7.63   | 8560 |
| 521 | 178 | Oak Creek #7 | 174 | D1 | 8/24/1976  | 10:01 | 8/24/1976  | 14:00 | 3.98   | 340  |
| 521 | 178 | Oak Creek #7 | 234 | D1 | 8/24/1976  | 14:00 | 8/24/1976  | 22:00 | 8      | 340  |
| 521 | 178 | Oak Creek #7 | 234 | PD | 8/24/1976  | 22:00 | 8/25/1976  | 4:00  | 6      | 340  |
| 521 | 178 | Oak Creek #7 | 236 | D1 | 8/26/1976  | 0:30  | 8/26/1976  | 6:15  | 5.75   | 340  |
| 521 | 178 | Oak Creek #7 |     | NC | 8/26/1976  | 0:30  | 8/26/1976  | 6:15  | 5.75   | 1999 |
| 521 | 178 | Oak Creek #7 | 236 | PD | 8/28/1976  | 0:15  | 8/28/1976  | 5:30  | 5.25   | 340  |
| 521 | 178 | Oak Creek #7 | 231 | PD | 8/29/1976  | 23:30 | 8/30/1976  | 4:30  | 5      | 340  |
| 521 | 178 | Oak Creek #7 | 231 | PD | 8/31/1976  | 0:01  | 8/31/1976  | 5:15  | 5.23   | 340  |
| 521 | 178 | Oak Creek #7 | 241 | D1 | 8/31/1976  | 8:30  | 8/31/1976  | 9:40  | 1.16   | 340  |
| 521 | 178 | Oak Creek #7 |     | PO | 9/4/1976   | 10:49 | 10/5/1976  | 15:36 | 748.78 | 1999 |
| 521 | 178 | Oak Creek #7 | 226 | D1 | 10/6/1976  | 20:15 | 10/7/1976  | 1:00  | 4.75   | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 10/9/1976  | 1:24  | 10/10/1976 | 1:00  | 23.6   | 1999 |
| 521 | 178 | Oak Creek #7 |     | MO | 10/9/1976  | 1:24  | 10/10/1976 | 1:00  | 23.6   | 1999 |
| 521 | 178 | Oak Creek #7 | 130 | D1 | 10/10/1976 | 21:45 | 10/11/1976 | 21:08 | 23.38  | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 10/11/1976 | 21:08 | 10/12/1976 | 15:35 | 18.45  | 1000 |
| 521 | 178 | Oak Creek #7 | 226 | D1 | 10/25/1976 | 0:30  | 10/25/1976 | 6:20  | 5.83   | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 10/27/1976 | 0:31  | 10/28/1976 | 6:20  | 29.81  | 1000 |
| 521 | 178 | Oak Creek #7 | 190 | D1 | 12/12/1976 | 4:45  | 12/13/1976 | 8:50  | 28.08  | 895  |
| 521 | 178 | Oak Creek #7 |     | U1 | 12/13/1976 | 23:48 | 12/16/1976 | 1:31  | 49.71  | 1100 |
| 521 | 178 | Oak Creek #7 | 232 | D1 | 12/17/1976 | 14:30 | 12/17/1976 | 16:10 | 1.66   | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 12/22/1976 | 20:12 | 12/23/1976 | 12:48 | 16.6   | 530  |

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|     |     |              |     |    |            |       |            |       |        |      |
|-----|-----|--------------|-----|----|------------|-------|------------|-------|--------|------|
| 521 | 178 | Oak Creek #7 | 257 | D1 | 12/24/1976 | 0:01  | 12/28/1976 | 6:00  | 101.98 | 3440 |
| 521 | 178 | Oak Creek #7 | 242 | D1 | 12/28/1976 | 13:30 | 12/28/1976 | 15:30 | 2      | 340  |
| 521 | 178 | Oak Creek #7 | 132 | PD | 1/4/1977   | 3:00  | 1/4/1977   | 6:00  | 3      | 3410 |
| 521 | 178 | Oak Creek #7 | 237 | D1 | 1/4/1977   | 7:30  | 1/9/1977   | 19:20 | 131.83 | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 1/4/1977   | 19:32 | 1/6/1977   | 6:03  | 34.51  | 1000 |
| 521 | 178 | Oak Creek #7 | 177 | D1 | 1/9/1977   | 7:30  | 1/9/1977   | 12:00 | 4.5    | 340  |
| 521 | 178 | Oak Creek #7 | 242 | D1 | 1/16/1977  | 17:15 | 1/16/1977  | 20:00 | 2.75   | 340  |
| 521 | 178 | Oak Creek #7 | 132 | D1 | 1/17/1977  | 13:50 | 1/17/1977  | 17:30 | 3.66   | 1455 |
| 521 | 178 | Oak Creek #7 | 217 | D1 | 1/18/1977  | 6:30  | 1/18/1977  | 11:45 | 5.25   | 250  |
| 521 | 178 | Oak Creek #7 | 177 | D1 | 1/18/1977  | 22:00 | 1/19/1977  | 5:26  | 7.43   | 3418 |
| 521 | 178 | Oak Creek #7 | 137 | D1 | 1/19/1977  | 21:00 | 1/20/1977  | 22:30 | 25.5   | 1455 |
| 521 | 178 | Oak Creek #7 |     | MO | 1/22/1977  | 0:11  | 1/24/1977  | 3:05  | 50.9   | 1999 |
| 521 | 178 | Oak Creek #7 | 252 | D1 | 1/22/1977  | 0:12  | 1/24/1977  | 20:48 | 68.6   | 3440 |
| 521 | 178 | Oak Creek #7 | 212 | PD | 2/8/1977   | 7:30  | 2/13/1977  | 1:00  | 113.5  | 340  |
| 521 | 178 | Oak Creek #7 | 167 | D1 | 2/10/1977  | 23:30 | 2/11/1977  | 4:00  | 4.5    | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 2/18/1977  | 23:35 | 2/19/1977  | 23:35 | 24     | 1000 |
| 521 | 178 | Oak Creek #7 | 222 | D1 | 3/2/1977   | 3:00  | 3/6/1977   | 20:15 | 113.25 | 340  |
| 521 | 178 | Oak Creek #7 | 232 | PD | 3/10/1977  | 23:30 | 3/11/1977  | 3:00  | 3.5    | 340  |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 3/15/1977  | 12:30 | 3/15/1977  | 16:30 | 4      | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 3/19/1977  | 22:07 | 3/20/1977  | 22:23 | 24.26  | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 3/26/1977  | 4:49  | 3/28/1977  | 13:14 | 56.41  | 1000 |
| 521 | 178 | Oak Creek #7 |     | MO | 4/9/1977   | 21:00 | 4/17/1977  | 15:27 | 186.45 | 840  |
| 521 | 178 | Oak Creek #7 |     | U1 | 4/22/1977  | 23:36 | 4/25/1977  | 22:16 | 70.66  | 1000 |
| 521 | 178 | Oak Creek #7 | 226 | D1 | 4/29/1977  | 3:13  | 4/29/1977  | 20:45 | 17.53  | 340  |
| 521 | 178 | Oak Creek #7 | 232 | D1 | 4/30/1977  | 15:35 | 4/30/1977  | 20:27 | 4.86   | 340  |
| 521 | 178 | Oak Creek #7 | 132 | D1 | 5/3/1977   | 18:00 | 5/4/1977   | 7:55  | 13.91  | 1455 |
| 521 | 178 | Oak Creek #7 | 111 | D1 | 5/8/1977   | 1:25  | 5/8/1977   | 20:10 | 18.75  | 1455 |
| 521 | 178 | Oak Creek #7 | 122 | PD | 5/14/1977  | 1:30  | 5/15/1977  | 1:48  | 24.3   | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 5/15/1977  | 1:48  | 5/16/1977  | 6:32  | 28.73  | 1040 |
| 521 | 178 | Oak Creek #7 | 232 | PD | 5/17/1977  | 23:00 | 5/18/1977  | 6:30  | 7.5    | 340  |
| 521 | 178 | Oak Creek #7 | 242 | D1 | 5/21/1977  | 21:50 | 5/22/1977  | 4:00  | 6.16   | 340  |
| 521 | 178 | Oak Creek #7 | 227 | D1 | 5/27/1977  | 2:00  | 5/27/1977  | 16:00 | 14     | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/5/1977   | 15:52 | 6/8/1977   | 4:37  | 60.75  | 1040 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/14/1977  | 0:04  | 6/15/1977  | 5:56  | 29.86  | 1040 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/17/1977  | 0:22  | 6/17/1977  | 22:41 | 22.31  | 1040 |
| 521 | 178 | Oak Creek #7 | 241 | D1 | 6/23/1977  | 20:30 | 6/23/1977  | 23:50 | 3.33   | 340  |
| 521 | 178 | Oak Creek #7 | 261 | D1 | 7/4/1977   | 23:00 | 7/8/1977   | 6:17  | 79.28  | 3440 |
| 521 | 178 | Oak Creek #7 | 241 | D1 | 7/5/1977   | 9:15  | 7/5/1977   | 11:30 | 2.25   | 340  |
| 521 | 178 | Oak Creek #7 | 250 | PD | 7/12/1977  | 0:30  | 7/12/1977  | 6:30  | 6      | 340  |
| 521 | 178 | Oak Creek #7 |     | MO | 7/16/1977  | 18:33 | 7/18/1977  | 2:45  | 32.2   | 1060 |
| 521 | 178 | Oak Creek #7 | 246 | D1 | 7/20/1977  | 9:30  | 7/20/1977  | 9:45  | 0.25   | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/23/1977  | 1:01  | 7/24/1977  | 16:32 | 39.51  | 1040 |
| 521 | 178 | Oak Creek #7 | 241 | PD | 7/29/1977  | 1:00  | 7/29/1977  | 6:00  | 5      | 340  |
| 521 | 178 | Oak Creek #7 | 241 | PD | 7/30/1977  | 0:30  | 7/30/1977  | 6:30  | 6      | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/2/1977   | 19:11 | 8/4/1977   | 19:11 | 48     | 1040 |
| 521 | 178 | Oak Creek #7 | 241 | D1 | 8/10/1977  | 21:30 | 8/11/1977  | 3:55  | 6.41   | 340  |

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|     |     |              |     |  |    |            |       |            |       |        |      |
|-----|-----|--------------|-----|--|----|------------|-------|------------|-------|--------|------|
| 521 | 178 | Oak Creek #7 |     |  | U1 | 8/12/1977  | 17:58 | 8/15/1977  | 1:37  | 55.65  | 1000 |
| 521 | 178 | Oak Creek #7 | 241 |  | PD | 8/21/1977  | 8:00  | 8/21/1977  | 15:45 | 7.75   | 340  |
| 521 | 178 | Oak Creek #7 | 231 |  | PD | 8/24/1977  | 7:30  | 8/24/1977  | 10:30 | 3      | 340  |
| 521 | 178 | Oak Creek #7 | 236 |  | D1 | 8/25/1977  | 3:15  | 8/25/1977  | 20:00 | 16.75  | 340  |
| 521 | 178 | Oak Creek #7 | 236 |  | D1 | 8/27/1977  | 20:06 | 8/28/1977  | 13:30 | 17.4   | 340  |
| 521 | 178 | Oak Creek #7 | 251 |  | D1 | 9/13/1977  | 7:30  | 9/13/1977  | 21:40 | 14.16  | 3999 |
| 521 | 178 | Oak Creek #7 | 151 |  | D1 | 9/14/1977  | 13:00 | 9/15/1977  | 11:30 | 22.5   | 1455 |
| 521 | 178 | Oak Creek #7 | 140 |  | D1 | 9/15/1977  | 13:15 | 9/15/1977  | 16:15 | 3      | 1455 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 9/18/1977  | 7:58  | 9/20/1977  | 7:57  | 47.98  | 1000 |
| 521 | 178 | Oak Creek #7 | 256 |  | D1 | 9/27/1977  | 0:30  | 10/3/1977  | 14:00 | 157.5  | 340  |
| 521 | 178 | Oak Creek #7 | 156 |  | D1 | 10/2/1977  | 21:50 | 10/2/1977  | 23:00 | 1.16   | 340  |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 10/21/1977 | 23:18 | 10/24/1977 | 4:44  | 53.43  | 1000 |
| 521 | 178 | Oak Creek #7 | 256 |  | D1 | 10/25/1977 | 15:00 | 10/25/1977 | 18:00 | 3      | 340  |
| 521 | 178 | Oak Creek #7 | 161 |  | D1 | 10/28/1977 | 2:00  | 10/28/1977 | 4:45  | 2.75   | 3410 |
| 521 | 178 | Oak Creek #7 | 252 |  | D1 | 11/8/1977  | 2:00  | 11/8/1977  | 8:00  | 6      | 340  |
| 521 | 178 | Oak Creek #7 | 157 |  | D1 | 11/9/1977  | 19:00 | 11/10/1977 | 7:15  | 12.25  | 1455 |
| 521 | 178 | Oak Creek #7 |     |  | PO | 11/12/1977 | 3:32  | 12/19/1977 | 18:23 | 926.85 | 1999 |
| 521 | 178 | Oak Creek #7 | 150 |  | D1 | 12/19/1977 | 18:23 | 12/23/1977 | 22:36 | 100.21 | 3310 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 12/23/1977 | 22:36 | 12/24/1977 | 16:14 | 17.63  | 3130 |
| 521 | 178 | Oak Creek #7 | 187 |  | D1 | 12/24/1977 | 16:14 | 12/25/1977 | 22:00 | 29.76  | 1455 |
| 521 | 178 | Oak Creek #7 | 207 |  | D1 | 12/25/1977 | 22:00 | 12/26/1977 | 13:50 | 15.83  | 340  |
| 521 | 178 | Oak Creek #7 | 240 |  | D1 | 12/26/1977 | 13:50 | 12/27/1977 | 22:00 | 32.16  | 340  |
| 521 | 178 | Oak Creek #7 | 202 |  | D1 | 12/27/1977 | 22:00 | 12/28/1977 | 4:30  | 6.5    | 340  |
| 521 | 178 | Oak Creek #7 | 240 |  | D1 | 12/28/1977 | 4:30  | 12/29/1977 | 12:00 | 31.5   | 340  |
| 521 | 178 | Oak Creek #7 | 235 |  | D1 | 12/30/1977 | 14:30 | 12/31/1977 | 1:00  | 10.5   | 3999 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 1/4/1978   | 23:45 | 1/6/1978   | 1:00  | 25.25  | 1000 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 1/7/1978   | 16:43 | 1/8/1978   | 14:37 | 21.9   | 1000 |
| 521 | 178 | Oak Creek #7 | 230 |  | D1 | 1/8/1978   | 21:50 | 1/13/1978  | 2:00  | 100.16 | 340  |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 1/10/1978  | 5:06  | 1/11/1978  | 6:18  | 25.2   | 1000 |
| 521 | 178 | Oak Creek #7 | 220 |  | D1 | 1/13/1978  | 14:00 | 2/6/1978   | 7:45  | 569.75 | 340  |
| 521 | 178 | Oak Creek #7 | 175 |  | D1 | 1/14/1978  | 5:20  | 1/14/1978  | 20:15 | 14.91  | 340  |
| 521 | 178 | Oak Creek #7 | 170 |  | D1 | 1/16/1978  | 18:30 | 1/17/1978  | 6:00  | 11.5   | 350  |
| 521 | 178 | Oak Creek #7 | 180 |  | D1 | 1/17/1978  | 7:00  | 1/17/1978  | 10:30 | 3.5    | 3999 |
| 521 | 178 | Oak Creek #7 | 170 |  | D1 | 1/19/1978  | 8:15  | 1/23/1978  | 3:00  | 90.75  | 340  |
| 521 | 178 | Oak Creek #7 | 115 |  | D1 | 1/20/1978  | 0:02  | 1/20/1978  | 5:15  | 5.21   | 340  |
| 521 | 178 | Oak Creek #7 | 120 |  | D1 | 1/21/1978  | 18:15 | 1/22/1978  | 6:00  | 11.75  | 340  |
| 521 | 178 | Oak Creek #7 | 175 |  | D1 | 1/23/1978  | 7:00  | 1/23/1978  | 23:00 | 16     | 9290 |
| 521 | 178 | Oak Creek #7 | 160 |  | PD | 1/25/1978  | 0:30  | 1/25/1978  | 3:00  | 2.5    | 340  |
| 521 | 178 | Oak Creek #7 | 175 |  | D1 | 1/25/1978  | 13:20 | 2/11/1978  | 17:40 | 412.33 | 340  |
| 521 | 178 | Oak Creek #7 | 187 |  | PD | 2/9/1978   | 15:01 | 2/9/1978   | 15:40 | 0.65   | 3999 |
| 521 | 178 | Oak Creek #7 | 265 |  | D1 | 2/11/1978  | 17:40 | 2/14/1978  | 18:30 | 72.83  | 3440 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 2/17/1978  | 22:30 | 2/20/1978  | 6:17  | 55.78  | 1305 |
| 521 | 178 | Oak Creek #7 |     |  | MO | 2/21/1978  | 13:53 | 2/21/1978  | 15:49 | 1.93   | 9320 |
| 521 | 178 | Oak Creek #7 | 220 |  | D1 | 2/21/1978  | 15:49 | 3/11/1978  | 5:45  | 421.93 | 340  |
| 521 | 178 | Oak Creek #7 | 160 |  | D1 | 2/22/1978  | 10:01 | 2/22/1978  | 21:45 | 11.73  | 340  |
| 521 | 178 | Oak Creek #7 | 160 |  | D1 | 2/22/1978  | 21:45 | 3/5/1978   | 18:00 | 260.25 | 340  |

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|     |     |              |     |    |           |       |           |       |        |      |
|-----|-----|--------------|-----|----|-----------|-------|-----------|-------|--------|------|
| 521 | 178 | Oak Creek #7 | 120 | D1 | 2/24/1978 | 11:15 | 2/25/1978 | 0:30  | 13.25  | 1455 |
| 521 | 178 | Oak Creek #7 | 95  | D1 | 2/28/1978 | 17:00 | 2/28/1978 | 19:00 | 2      | 340  |
| 521 | 178 | Oak Creek #7 | 220 | D1 | 3/11/1978 | 5:45  | 3/22/1978 | 14:00 | 272.25 | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 3/11/1978 | 21:35 | 3/12/1978 | 16:13 | 18.63  | 3999 |
| 521 | 178 | Oak Creek #7 | 150 | D1 | 3/20/1978 | 18:45 | 3/20/1978 | 21:15 | 2.5    | 340  |
| 521 | 178 | Oak Creek #7 | 160 | D1 | 3/22/1978 | 13:15 | 3/22/1978 | 14:30 | 1.25   | 1400 |
| 521 | 178 | Oak Creek #7 | 232 | D1 | 3/22/1978 | 16:20 | 3/22/1978 | 19:45 | 3.41   | 340  |
| 521 | 178 | Oak Creek #7 | 252 | D1 | 3/25/1978 | 8:00  | 3/25/1978 | 13:00 | 5      | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 3/26/1978 | 0:02  | 3/26/1978 | 23:13 | 23.18  | 1000 |
| 521 | 178 | Oak Creek #7 | 152 | D1 | 3/29/1978 | 2:45  | 3/29/1978 | 6:30  | 3.75   | 1999 |
| 521 | 178 | Oak Creek #7 | 237 | D1 | 4/8/1978  | 7:00  | 4/8/1978  | 15:15 | 8.25   | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 4/8/1978  | 23:51 | 4/9/1978  | 7:47  | 7.93   | 8560 |
| 521 | 178 | Oak Creek #7 | 237 | D1 | 4/10/1978 | 14:30 | 4/10/1978 | 22:30 | 8      | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 4/15/1978 | 3:09  | 4/17/1978 | 6:45  | 51.6   | 1305 |
| 521 | 178 | Oak Creek #7 | 232 | D1 | 4/22/1978 | 9:00  | 4/22/1978 | 14:30 | 5.5    | 340  |
| 521 | 178 | Oak Creek #7 | 262 | D1 | 4/24/1978 | 18:00 | 4/25/1978 | 3:15  | 9.25   | 3999 |
| 521 | 178 | Oak Creek #7 |     | U1 | 4/28/1978 | 6:17  | 4/29/1978 | 3:53  | 21.6   | 1000 |
| 521 | 178 | Oak Creek #7 | 157 | D1 | 5/2/1978  | 15:30 | 5/3/1978  | 5:50  | 14.33  | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 5/4/1978  | 0:03  | 5/7/1978  | 1:02  | 72.98  | 1590 |
| 521 | 178 | Oak Creek #7 | 242 | D1 | 5/10/1978 | 4:30  | 5/11/1978 | 10:00 | 29.5   | 920  |
| 521 | 178 | Oak Creek #7 |     | U1 | 5/13/1978 | 21:43 | 5/15/1978 | 1:21  | 27.63  | 1100 |
| 521 | 178 | Oak Creek #7 |     | U1 | 5/15/1978 | 16:55 | 5/15/1978 | 17:05 | 0.16   | 9900 |
| 521 | 178 | Oak Creek #7 |     | U1 | 5/20/1978 | 22:50 | 5/22/1978 | 3:47  | 28.95  | 1000 |
| 521 | 178 | Oak Creek #7 | 172 | D1 | 5/31/1978 | 5:30  | 5/31/1978 | 8:45  | 3.25   | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 5/31/1978 | 13:39 | 5/31/1978 | 14:05 | 0.43   | 3130 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/6/1978  | 17:14 | 6/8/1978  | 4:42  | 35.46  | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/9/1978  | 3:17  | 6/10/1978 | 5:46  | 26.48  | 1000 |
| 521 | 178 | Oak Creek #7 | 250 | D1 | 6/11/1978 | 10:01 | 6/11/1978 | 16:05 | 6.06   | 3999 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/16/1978 | 23:14 | 6/20/1978 | 4:17  | 77.05  | 1100 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/24/1978 | 0:35  | 6/26/1978 | 22:48 | 70.21  | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/27/1978 | 22:47 | 6/28/1978 | 6:47  | 8      | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/28/1978 | 23:06 | 6/29/1978 | 2:45  | 3.65   | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/3/1978  | 14:05 | 7/5/1978  | 0:34  | 34.48  | 1455 |
| 521 | 178 | Oak Creek #7 | 165 | D1 | 7/5/1978  | 3:00  | 7/6/1978  | 1:30  | 22.5   | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/5/1978  | 3:38  | 7/5/1978  | 4:04  | 0.43   | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/5/1978  | 4:12  | 7/5/1978  | 4:34  | 0.36   | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/5/1978  | 6:30  | 7/5/1978  | 6:43  | 0.21   | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/17/1978 | 21:46 | 7/19/1978 | 21:02 | 47.26  | 1000 |
| 521 | 178 | Oak Creek #7 | 140 | D1 | 7/22/1978 | 8:00  | 7/22/1978 | 16:30 | 8.5    | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/24/1978 | 16:45 | 7/26/1978 | 4:23  | 35.63  | 1005 |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/27/1978 | 15:33 | 7/30/1978 | 23:26 | 79.88  | 1040 |
| 521 | 178 | Oak Creek #7 | 140 | D1 | 8/2/1978  | 7:00  | 8/16/1978 | 5:50  | 334.83 | 1455 |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/4/1978  | 23:09 | 8/6/1978  | 17:03 | 41.9   | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/7/1978  | 20:06 | 8/8/1978  | 0:49  | 4.71   | 4269 |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/8/1978  | 1:00  | 8/8/1978  | 1:31  | 0.51   | 9900 |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/12/1978 | 1:25  | 8/13/1978 | 10:06 | 32.68  | 1000 |

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|     |     |              |     |    |            |       |            |          |         |      |
|-----|-----|--------------|-----|----|------------|-------|------------|----------|---------|------|
| 521 | 178 | Oak Creek #7 | 240 | D1 | 8/23/1978  | 11:00 | 9/26/1978  | 19:15    | 824.25  | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/26/1978  | 0:34  | 8/28/1978  | 6:11     | 53.61   | 920  |
| 521 | 178 | Oak Creek #7 | 170 | D1 | 8/28/1978  | 19:45 | 8/29/1978  | 5:15     | 9.5     | 340  |
| 521 | 178 | Oak Creek #7 | 150 | D1 | 8/30/1978  | 23:00 | 9/5/1978   | 13:25    | 134.41  | 1455 |
| 521 | 178 | Oak Creek #7 | 160 | D1 | 9/5/1978   | 14:30 | 9/7/1978   | 6:36     | 40.09   | 340  |
| 521 | 178 | Oak Creek #7 | 180 | D1 | 9/19/1978  | 8:15  | 9/19/1978  | 12:45    | 4.5     | 920  |
| 521 | 178 | Oak Creek #7 | 170 | D1 | 9/25/1978  | 17:15 | 9/26/1978  | 11:15    | 18      | 340  |
| 521 | 178 | Oak Creek #7 | 165 | D1 | 9/26/1978  | 16:00 | 9/27/1978  | 7:30     | 15.5    | 340  |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 9/28/1978  | 15:00 | 9/28/1978  | 21:25    | 6.41    | 340  |
| 521 | 178 | Oak Creek #7 | 31  | D1 | 9/30/1978  | 0:01  | 9/30/1978  | 7:34     | 7.55    | 4014 |
| 521 | 178 | Oak Creek #7 |     | U1 | 9/30/1978  | 7:34  | 9/30/1978  | 22:16    | 14.7    | 4014 |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 10/4/1978  | 6:30  | 10/4/1978  | 14:50    | 8.33    | 3999 |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 10/6/1978  | 23:30 | 10/7/1978  | 16:30    | 17      | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 10/8/1978  | 1:28  | 10/10/1978 | 10:35    | 57.11   | 8560 |
| 521 | 178 | Oak Creek #7 | 231 | D1 | 10/12/1978 | 12:30 | 10/12/1978 | 23:00    | 10.5    | 340  |
| 521 | 178 | Oak Creek #7 |     | MO | 10/16/1978 | 0:07  | 10/16/1978 | 0:44     | 0.61    | 9320 |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 10/20/1978 | 5:30  | 10/23/1978 | 23:50    | 90.33   | 340  |
| 521 | 178 | Oak Creek #7 | 160 | D1 | 10/21/1978 | 5:00  | 10/22/1978 | 6:00     | 25      | 340  |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 10/25/1978 | 1:00  | 11/2/1978  | 22:15    | 213.25  | 340  |
| 521 | 178 | Oak Creek #7 | 180 | D1 | 10/31/1978 | 22:00 | 11/1/1978  | 4:30     | 6.5     | 340  |
| 521 | 178 | Oak Creek #7 | 194 | D1 | 11/2/1978  | 3:45  | 11/9/1978  | 2:00     | 166.25  | 3440 |
| 521 | 178 | Oak Creek #7 |     | U1 | 11/4/1978  | 23:12 | 11/6/1978  | 8:15     | 33.05   | 8560 |
| 521 | 178 | Oak Creek #7 |     | U1 | 11/6/1978  | 12:47 | 11/7/1978  | 6:13     | 17.43   | 8560 |
| 521 | 178 | Oak Creek #7 | 262 | PD | 11/9/1978  | 13:00 | 11/9/1978  | 22:15    | 9.25    | 3999 |
| 521 | 178 | Oak Creek #7 | 262 | PD | 11/10/1978 | 8:00  | 11/11/1978 | 12:00    | 28      | 250  |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 11/12/1978 | 3:00  | 11/12/1978 | 14:15    | 11.25   | 340  |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 11/15/1978 | 8:00  | 11/15/1978 | 21:00    | 13      | 340  |
| 521 | 178 | Oak Creek #7 | 140 | D1 | 11/18/1978 | 2:00  | 11/20/1978 | 0:30     | 46.5    | 1455 |
| 521 | 178 | Oak Creek #7 | 102 | D1 | 11/21/1978 | 2:00  | 11/21/1978 | 11:00    | 9       | 8325 |
| 521 | 178 | Oak Creek #7 |     | U1 | 11/23/1978 | 1:16  | 11/26/1978 | 21:03    | 91.78   | 895  |
| 521 | 178 | Oak Creek #7 | 142 | D1 | 11/27/1978 | 13:45 | 11/29/1978 | 19:00    | 53.25   | 1455 |
| 521 | 178 | Oak Creek #7 | 212 | D1 | 12/5/1978  | 19:30 | 12/5/1978  | 20:45    | 1.25    | 3999 |
| 521 | 178 | Oak Creek #7 |     | U1 | 12/10/1978 | 10:09 | 12/13/1978 | 11:15    | 73.1    | 1040 |
| 521 | 178 | Oak Creek #7 |     | U1 | 12/14/1978 | 15:36 | 12/15/1978 | 21:54    | 30.3    | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 12/23/1978 | 0:15  | 12/24/1978 | 0:14     | 23.98   | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 12/24/1978 | 21:27 | 12/26/1978 | 17:38    | 44.18   | 1040 |
| 521 | 178 | Oak Creek #7 |     | PO | 12/30/1978 | 3:31  | 12/31/1978 | 24:00:00 | 44.48   | 1999 |
| 521 | 178 | Oak Creek #7 |     | PO | 1/1/1979   | 0:01  | 2/21/1979  | 17:46    | 1241.75 | 1999 |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 2/21/1979  | 17:46 | 2/22/1979  | 6:00     | 12.23   | 3999 |
| 521 | 178 | Oak Creek #7 | 140 | D1 | 2/22/1979  | 6:00  | 2/23/1979  | 6:45     | 24.75   | 1455 |
| 521 | 178 | Oak Creek #7 | 205 | D1 | 2/23/1979  | 6:45  | 3/31/1979  | 24:00:00 | 881.25  | 740  |
| 521 | 178 | Oak Creek #7 | 90  | D1 | 2/24/1979  | 10:00 | 2/24/1979  | 22:02    | 12.03   | 1999 |
| 521 | 178 | Oak Creek #7 |     | U1 | 2/24/1979  | 22:02 | 2/26/1979  | 8:57     | 34.91   | 8325 |
| 521 | 178 | Oak Creek #7 | 140 | D1 | 2/28/1979  | 23:30 | 3/1/1979   | 4:15     | 4.75    | 1455 |
| 521 | 178 | Oak Creek #7 | 100 | D1 | 3/1/1979   | 14:10 | 3/2/1979   | 3:00     | 12.83   | 920  |
| 521 | 178 | Oak Creek #7 |     | U1 | 3/8/1979   | 21:50 | 3/9/1979   | 5:59     | 8.14    | 8560 |

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|     |     |              |     |    |           |       |           |       |        |      |
|-----|-----|--------------|-----|----|-----------|-------|-----------|-------|--------|------|
| 521 | 178 | Oak Creek #7 | 180 | D1 | 3/14/1979 | 1:00  | 3/14/1979 | 5:00  | 4      | 340  |
| 521 | 178 | Oak Creek #7 | 180 | D1 | 3/15/1979 | 0:30  | 3/15/1979 | 3:00  | 2.5    | 340  |
| 521 | 178 | Oak Creek #7 | 175 | D1 | 3/28/1979 | 23:30 | 3/29/1979 | 19:55 | 20.41  | 1999 |
| 521 | 178 | Oak Creek #7 | 175 | D1 | 3/29/1979 | 21:35 | 3/30/1979 | 6:15  | 8.66   | 1999 |
| 521 | 178 | Oak Creek #7 | 150 | D1 | 3/31/1979 | 5:15  | 3/31/1979 | 5:45  | 0.5    | 3999 |
| 521 | 178 | Oak Creek #7 | 257 | D1 | 4/9/1979  | 3:45  | 4/9/1979  | 10:30 | 6.75   | 340  |
| 521 | 178 | Oak Creek #7 | 257 | D1 | 4/9/1979  | 10:45 | 4/9/1979  | 12:30 | 1.75   | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 4/14/1979 | 22:30 | 4/15/1979 | 11:12 | 12.7   | 8560 |
| 521 | 178 | Oak Creek #7 | 237 | D1 | 4/19/1979 | 4:20  | 4/19/1979 | 16:50 | 12.5   | 3999 |
| 521 | 178 | Oak Creek #7 | 227 | D1 | 4/26/1979 | 12:45 | 4/27/1979 | 0:10  | 11.41  | 1486 |
| 521 | 178 | Oak Creek #7 |     | U1 | 5/4/1979  | 0:07  | 5/7/1979  | 8:29  | 80.36  | 8560 |
| 521 | 178 | Oak Creek #7 |     | U1 | 5/8/1979  | 14:08 | 5/10/1979 | 4:49  | 38.68  | 1000 |
| 521 | 178 | Oak Creek #7 | 207 | D1 | 5/10/1979 | 4:49  | 5/12/1979 | 0:55  | 44.1   | 1400 |
| 521 | 178 | Oak Creek #7 | 160 | D1 | 5/12/1979 | 10:45 | 5/14/1979 | 4:40  | 41.91  | 1400 |
| 521 | 178 | Oak Creek #7 |     | U1 | 5/14/1979 | 16:22 | 5/16/1979 | 5:43  | 37.34  | 1060 |
| 521 | 178 | Oak Creek #7 | 162 | D1 | 5/16/1979 | 5:43  | 5/17/1979 | 16:10 | 34.45  | 1455 |
| 521 | 178 | Oak Creek #7 | 162 | D1 | 5/17/1979 | 17:00 | 5/18/1979 | 6:15  | 13.25  | 1000 |
| 521 | 178 | Oak Creek #7 | 197 | D1 | 5/18/1979 | 16:15 | 5/19/1979 | 4:20  | 12.08  | 1455 |
| 521 | 178 | Oak Creek #7 | 225 | D1 | 5/19/1979 | 10:45 | 5/19/1979 | 14:30 | 3.75   | 340  |
| 521 | 178 | Oak Creek #7 |     | MO | 5/22/1979 | 22:49 | 5/23/1979 | 4:14  | 5.41   | 3999 |
| 521 | 178 | Oak Creek #7 |     | U1 | 5/23/1979 | 19:35 | 5/24/1979 | 3:06  | 7.51   | 8560 |
| 521 | 178 | Oak Creek #7 |     | MO | 5/31/1979 | 22:32 | 6/1/1979  | 2:55  | 4.38   | 8560 |
| 521 | 178 | Oak Creek #7 | 159 | D1 | 6/1/1979  | 5:15  | 6/3/1979  | 14:30 | 57.25  | 1400 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/1/1979  | 23:59 | 6/3/1979  | 23:59 | 48     | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/6/1979  | 22:06 | 6/7/1979  | 6:38  | 8.53   | 3999 |
| 521 | 178 | Oak Creek #7 | 220 | D1 | 6/7/1979  | 12:00 | 6/10/1979 | 22:00 | 82     | 3999 |
| 521 | 178 | Oak Creek #7 | 240 | D1 | 6/13/1979 | 14:30 | 6/13/1979 | 23:00 | 8.5    | 340  |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/20/1979 | 0:22  | 6/23/1979 | 6:21  | 77.98  | 1060 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/23/1979 | 7:54  | 6/23/1979 | 8:04  | 0.16   | 4309 |
| 521 | 178 | Oak Creek #7 |     | MO | 6/24/1979 | 22:25 | 6/25/1979 | 4:48  | 6.38   | 8580 |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/25/1979 | 4:58  | 6/25/1979 | 6:19  | 1.35   | 740  |
| 521 | 178 | Oak Creek #7 |     | U1 | 6/28/1979 | 0:02  | 6/29/1979 | 17:00 | 40.96  | 1000 |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/3/1979  | 22:36 | 7/6/1979  | 3:08  | 52.53  | 1000 |
| 521 | 178 | Oak Creek #7 | 170 | D1 | 7/7/1979  | 17:30 | 7/11/1979 | 12:05 | 90.58  | 1400 |
| 521 | 178 | Oak Creek #7 | 235 | D1 | 7/15/1979 | 4:30  | 7/15/1979 | 18:20 | 13.83  | 3999 |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/16/1979 | 20:56 | 7/18/1979 | 22:13 | 49.28  | 1100 |
| 521 | 178 | Oak Creek #7 | 110 | D1 | 7/19/1979 | 15:07 | 7/20/1979 | 8:10  | 17.04  | 1486 |
| 521 | 178 | Oak Creek #7 | 130 | D1 | 7/22/1979 | 7:30  | 7/22/1979 | 16:25 | 8.91   | 1486 |
| 521 | 178 | Oak Creek #7 | 132 | D1 | 7/25/1979 | 17:00 | 7/25/1979 | 23:38 | 6.63   | 1100 |
| 521 | 178 | Oak Creek #7 |     | U1 | 7/25/1979 | 23:38 | 7/30/1979 | 6:40  | 103.03 | 1100 |
| 521 | 178 | Oak Creek #7 | 135 | D1 | 8/5/1979  | 6:00  | 8/5/1979  | 11:30 | 5.5    | 895  |
| 521 | 178 | Oak Creek #7 | 120 | D1 | 8/6/1979  | 6:00  | 8/6/1979  | 17:00 | 11     | 895  |
| 521 | 178 | Oak Creek #7 | 250 | D1 | 8/10/1979 | 14:00 | 8/11/1979 | 15:30 | 25.5   | 340  |
| 521 | 178 | Oak Creek #7 | 120 | D1 | 8/11/1979 | 15:30 | 8/13/1979 | 10:30 | 43     | 8560 |
| 521 | 178 | Oak Creek #7 |     | U1 | 8/11/1979 | 23:55 | 8/13/1979 | 6:00  | 30.08  | 8560 |
| 521 | 178 | Oak Creek #7 | 75  | D1 | 8/13/1979 | 7:00  | 8/13/1979 | 15:30 | 8.5    | 340  |

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|     |     |              |     |  |    |            |       |            |          |         |      |
|-----|-----|--------------|-----|--|----|------------|-------|------------|----------|---------|------|
| 521 | 178 | Oak Creek #7 |     |  | U1 | 8/13/1979  | 21:21 | 8/15/1979  | 19:37    | 46.26   | 1000 |
| 521 | 178 | Oak Creek #7 | 181 |  | D1 | 8/20/1979  | 5:30  | 8/20/1979  | 15:05    | 9.58    | 1455 |
| 521 | 178 | Oak Creek #7 | 181 |  | D1 | 8/20/1979  | 17:00 | 8/21/1979  | 16:00    | 23      | 3999 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 8/24/1979  | 23:23 | 8/26/1979  | 5:15     | 29.86   | 1000 |
| 521 | 178 | Oak Creek #7 | 246 |  | D1 | 8/27/1979  | 5:00  | 8/27/1979  | 6:30     | 1.5     | 340  |
| 521 | 178 | Oak Creek #7 | 246 |  | D1 | 8/31/1979  | 17:10 | 9/11/1979  | 16:45    | 263.58  | 340  |
| 521 | 178 | Oak Creek #7 |     |  | MO | 9/2/1979   | 1:02  | 9/2/1979   | 18:30    | 17.46   | 4619 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 9/8/1979   | 23:48 | 9/10/1979  | 2:47     | 26.98   | 1100 |
| 521 | 178 | Oak Creek #7 | 216 |  | D1 | 9/11/1979  | 16:45 | 9/11/1979  | 20:00    | 3.25    | 340  |
| 521 | 178 | Oak Creek #7 | 151 |  | D1 | 9/11/1979  | 16:45 | 9/11/1979  | 20:00    | 3.25    | 340  |
| 521 | 178 | Oak Creek #7 | 181 |  | D1 | 9/14/1979  | 0:30  | 9/14/1979  | 4:30     | 4       | 3410 |
| 521 | 178 | Oak Creek #7 | 236 |  | D1 | 9/14/1979  | 8:30  | 9/14/1979  | 10:20    | 1.83    | 340  |
| 521 | 178 | Oak Creek #7 | 191 |  | D1 | 9/14/1979  | 8:30  | 9/14/1979  | 10:20    | 1.83    | 340  |
| 521 | 178 | Oak Creek #7 | 231 |  | D1 | 9/15/1979  | 7:00  | 9/15/1979  | 17:10    | 10.16   | 340  |
| 521 | 178 | Oak Creek #7 | 246 |  | D1 | 9/18/1979  | 7:30  | 10/22/1979 | 3:00     | 811.5   | 340  |
| 521 | 178 | Oak Creek #7 | 201 |  | D1 | 9/19/1979  | 4:13  | 11/14/1979 | 20:00    | 1359.78 | 340  |
| 521 | 178 | Oak Creek #7 | 156 |  | D1 | 10/19/1979 | 21:00 | 10/20/1979 | 7:45     | 10.75   | 4420 |
| 521 | 178 | Oak Creek #7 | 171 |  | D1 | 10/22/1979 | 13:50 | 10/23/1979 | 5:16     | 15.43   | 340  |
| 521 | 178 | Oak Creek #7 | 171 |  | D1 | 10/23/1979 | 15:00 | 10/24/1979 | 4:20     | 13.33   | 340  |
| 521 | 178 | Oak Creek #7 | 171 |  | D1 | 10/24/1979 | 22:00 | 10/25/1979 | 3:40     | 5.66    | 340  |
| 521 | 178 | Oak Creek #7 | 176 |  | D1 | 10/25/1979 | 8:45  | 10/26/1979 | 3:00     | 18.25   | 340  |
| 521 | 178 | Oak Creek #7 | 191 |  | D1 | 10/27/1979 | 11:35 | 10/27/1979 | 14:35    | 3       | 340  |
| 521 | 178 | Oak Creek #7 | 176 |  | D1 | 10/27/1979 | 17:22 | 10/27/1979 | 18:17    | 0.91    | 340  |
| 521 | 178 | Oak Creek #7 | 176 |  | PD | 10/30/1979 | 0:01  | 11/1/1979  | 1:38     | 49.61   | 1100 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 11/1/1979  | 1:38  | 11/5/1979  | 6:15     | 100.61  | 1100 |
| 521 | 178 | Oak Creek #7 | 202 |  | D1 | 11/14/1979 | 5:00  | 11/14/1979 | 6:45     | 1.75    | 340  |
| 521 | 178 | Oak Creek #7 | 210 |  | D1 | 11/14/1979 | 20:00 | 12/22/1979 | 3:00     | 919     | 340  |
| 521 | 178 | Oak Creek #7 | 150 |  | D1 | 11/16/1979 | 22:15 | 11/17/1979 | 4:45     | 6.5     | 340  |
| 521 | 178 | Oak Creek #7 | 222 |  | D1 | 1/7/1980   | 15:50 | 1/8/1980   | 2:11     | 10.35   | 3411 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 1/8/1980   | 2:11  | 1/11/1980  | 4:52     | 74.68   | 1080 |
| 521 | 178 | Oak Creek #7 | 180 |  | D1 | 1/11/1980  | 4:52  | 1/17/1980  | 3:30     | 142.63  | 3411 |
| 521 | 178 | Oak Creek #7 | 210 |  | D1 | 1/17/1980  | 4:00  | 2/4/1980   | 12:45    | 440.75  | 340  |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 2/1/1980   | 0:37  | 2/3/1980   | 5:47     | 53.16   | 1000 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 2/3/1980   | 9:02  | 2/3/1980   | 16:13    | 7.18    | 3149 |
| 521 | 178 | Oak Creek #7 | 210 |  | D1 | 2/4/1980   | 12:45 | 5/9/1980   | 8:59     | 2252.23 | 4420 |
| 521 | 178 | Oak Creek #7 | 222 |  | D1 | 2/7/1980   | 13:30 | 2/10/1980  | 11:30    | 70      | 3999 |
| 521 | 178 | Oak Creek #7 | 222 |  | D1 | 2/11/1980  | 16:15 | 2/18/1980  | 3:50     | 155.58  | 340  |
| 521 | 178 | Oak Creek #7 | 237 |  | D1 | 2/22/1980  | 15:30 | 2/23/1980  | 19:15    | 27.75   | 340  |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 3/2/1980   | 7:53  | 3/2/1980   | 9:28     | 1.58    | 1799 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 3/22/1980  | 2:47  | 3/24/1980  | 5:27     | 50.66   | 1000 |
| 521 | 178 | Oak Creek #7 | 132 |  | D1 | 3/24/1980  | 17:45 | 3/25/1980  | 1:00     | 7.25    | 1455 |
| 521 | 178 | Oak Creek #7 | 80  |  | D1 | 4/2/1980   | 7:45  | 4/4/1980   | 18:20    | 58.58   | 3410 |
| 521 | 178 | Oak Creek #7 | 105 |  | D1 | 4/17/1980  | 18:30 | 4/17/1980  | 20:45    | 2.25    | 340  |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 4/24/1980  | 13:27 | 4/24/1980  | 18:44    | 5.28    | 3149 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 4/26/1980  | 0:30  | 4/27/1980  | 13:48    | 37.3    | 3130 |
| 521 | 178 | Oak Creek #7 |     |  | MO | 5/9/1980   | 8:59  | 6/30/1980  | 24:00:00 | 1263.01 | 4400 |

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|     |     |              |     |  |    |            |       |            |          |         |      |
|-----|-----|--------------|-----|--|----|------------|-------|------------|----------|---------|------|
| 521 | 178 | Oak Creek #7 |     |  | MO | 7/1/1980   | 0:01  | 7/10/1980  | 15:19    | 231.3   | 4400 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 7/10/1980  | 15:49 | 8/5/1980   | 17:55    | 626.09  | 4400 |
| 521 | 178 | Oak Creek #7 |     |  | MO | 8/6/1980   | 6:03  | 8/6/1980   | 6:35     | 0.53    | 4309 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 8/8/1980   | 21:07 | 8/10/1980  | 1:17     | 28.16   | 8560 |
| 521 | 178 | Oak Creek #7 | 226 |  | D1 | 8/14/1980  | 6:00  | 10/11/1980 | 1:05     | 1387.08 | 4420 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 8/16/1980  | 2:27  | 8/17/1980  | 6:20     | 27.88   | 8560 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 8/22/1980  | 23:48 | 8/23/1980  | 14:30    | 14.7    | 8560 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 9/1/1980   | 9:59  | 9/2/1980   | 1:37     | 15.63   | 8560 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 9/5/1980   | 20:48 | 9/6/1980   | 7:41     | 10.88   | 8560 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 9/12/1980  | 23:40 | 9/13/1980  | 4:11     | 4.51    | 8560 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 9/13/1980  | 6:30  | 9/13/1980  | 7:44     | 1.23    | 3190 |
| 521 | 178 | Oak Creek #7 | 151 |  | D1 | 9/14/1980  | 0:01  | 9/14/1980  | 14:10    | 14.15   | 340  |
| 521 | 178 | Oak Creek #7 | 141 |  | D1 | 9/15/1980  | 5:30  | 9/15/1980  | 9:40     | 4.16    | 340  |
| 521 | 178 | Oak Creek #7 | 111 |  | D1 | 9/20/1980  | 6:00  | 9/22/1980  | 6:15     | 48.25   | 1455 |
| 521 | 178 | Oak Creek #7 | 111 |  | D1 | 9/22/1980  | 7:15  | 9/22/1980  | 20:45    | 13.5    | 1455 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 9/26/1980  | 23:30 | 9/28/1980  | 23:25    | 47.91   | 1000 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 9/29/1980  | 21:53 | 9/30/1980  | 9:54     | 12.01   | 4609 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 10/2/1980  | 20:40 | 10/4/1980  | 10:42    | 38.03   | 1400 |
| 521 | 178 | Oak Creek #7 |     |  | PO | 10/11/1980 | 1:06  | 12/31/1980 | 24:00:00 | 1990.9  | 1999 |
| 521 | 178 | Oak Creek #7 |     |  | PO | 1/1/1981   | 0:01  | 3/29/1981  | 5:05     | 2093.06 | 4400 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 3/29/1981  | 15:31 | 3/29/1981  | 18:11    | 2.66    | 4301 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 3/29/1981  | 22:20 | 3/29/1981  | 23:30    | 1.16    | 740  |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 3/29/1981  | 23:47 | 3/30/1981  | 1:35     | 1.8     | 740  |
| 521 | 178 | Oak Creek #7 | 150 |  | D1 | 3/30/1981  | 1:35  | 3/31/1981  | 23:59    | 46.4    | 1850 |
| 521 | 178 | Oak Creek #7 | 150 |  | D1 | 3/31/1981  | 23:59 | 4/2/1981   | 14:00    | 38.01   | 3410 |
| 521 | 178 | Oak Creek #7 | 240 |  | D1 | 4/4/1981   | 20:30 | 4/6/1981   | 3:10     | 30.66   | 340  |
| 521 | 178 | Oak Creek #7 | 220 |  | D1 | 4/6/1981   | 21:38 | 4/8/1981   | 2:10     | 28.53   | 340  |
| 521 | 178 | Oak Creek #7 | 178 |  | D1 | 4/7/1981   | 20:45 | 4/8/1981   | 4:00     | 7.25    | 340  |
| 521 | 178 | Oak Creek #7 | 240 |  | D1 | 4/8/1981   | 14:30 | 4/9/1981   | 2:35     | 12.08   | 340  |
| 521 | 178 | Oak Creek #7 | 220 |  | D1 | 4/12/1981  | 5:00  | 4/12/1981  | 12:00    | 7       | 340  |
| 521 | 178 | Oak Creek #7 | 150 |  | D1 | 4/14/1981  | 23:50 | 4/15/1981  | 1:10     | 1.33    | 1400 |
| 521 | 178 | Oak Creek #7 | 230 |  | D1 | 4/15/1981  | 1:10  | 4/15/1981  | 2:00     | 0.83    | 340  |
| 521 | 178 | Oak Creek #7 |     |  | MO | 4/16/1981  | 23:19 | 4/20/1981  | 3:57     | 76.63   | 4269 |
| 521 | 178 | Oak Creek #7 | 220 |  | D1 | 4/26/1981  | 5:00  | 4/26/1981  | 21:00    | 16      | 340  |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 5/1/1981   | 19:08 | 5/4/1981   | 4:16     | 57.13   | 1000 |
| 521 | 178 | Oak Creek #7 | 110 |  | PD | 5/6/1981   | 23:40 | 5/7/1981   | 6:00     | 6.33    | 1100 |
| 521 | 178 | Oak Creek #7 | 120 |  | PD | 5/7/1981   | 23:30 | 5/8/1981   | 5:30     | 6       | 1100 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 5/12/1981  | 18:06 | 5/15/1981  | 9:25     | 63.31   | 1000 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 5/17/1981  | 4:30  | 5/18/1981  | 1:03     | 20.55   | 1000 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 5/26/1981  | 13:53 | 5/29/1981  | 10:26    | 68.55   | 1000 |
| 521 | 178 | Oak Creek #7 | 140 |  | D1 | 5/29/1981  | 19:00 | 5/30/1981  | 8:30     | 13.5    | 1486 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 5/30/1981  | 23:43 | 5/31/1981  | 8:15     | 8.53    | 8560 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 6/7/1981   | 9:58  | 6/9/1981   | 0:53     | 38.91   | 1000 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 6/14/1981  | 0:05  | 6/15/1981  | 4:40     | 28.58   | 1060 |
| 521 | 178 | Oak Creek #7 |     |  | U1 | 6/25/1981  | 6:33  | 6/26/1981  | 21:51    | 39.3    | 1000 |
| 521 | 178 | Oak Creek #7 | 210 |  | D1 | 7/15/1981  | 7:20  | 7/15/1981  | 11:00    | 3.66    | 9650 |

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|     |     |              |      |     |    |            |       |            |          |         |      |                                   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|---------|------|-----------------------------------|
| 521 | 178 | Oak Creek #7 | 231  |     | D1 | 7/15/1981  | 11:00 | 7/15/1981  | 14:25    | 3.41    | 9650 |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 7/17/1981  | 23:59 | 7/19/1981  | 10:51    | 34.86   | 1000 |                                   |
| 521 | 178 | Oak Creek #7 | 251  |     | D1 | 8/3/1981   | 20:10 | 8/4/1981   | 20:30    | 24.33   | 250  |                                   |
| 521 | 178 | Oak Creek #7 | 220  |     | D1 | 8/11/1981  | 12:30 | 8/11/1981  | 20:10    | 7.66    | 9650 |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 8/14/1981  | 23:30 | 8/17/1981  | 2:50     | 51.33   | 1040 |                                   |
| 521 | 178 | Oak Creek #7 | 265  |     | D1 | 8/26/1981  | 4:30  | 8/26/1981  | 17:18    | 12.8    | 9650 |                                   |
| 521 | 178 | Oak Creek #7 |      |     | MO | 8/26/1981  | 17:16 | 8/29/1981  | 8:21     | 63.08   | 1000 |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 8/31/1981  | 4:16  | 10/13/1981 | 14:17    | 1042.01 | 1999 |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 10/13/1981 | 16:58 | 10/13/1981 | 23:24    | 6.43    | 380  |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 10/17/1981 | 16:24 | 10/20/1981 | 19:58    | 75.56   | 1040 |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 10/22/1981 | 23:06 | 10/24/1981 | 11:49    | 36.71   | 1040 |                                   |
| 521 | 178 | Oak Creek #7 | 250  |     | D1 | 10/24/1981 | 11:43 | 10/27/1981 | 19:35    | 79.86   | 340  |                                   |
| 521 | 178 | Oak Creek #7 | 200  |     | D1 | 10/27/1981 | 19:35 | 10/30/1981 | 23:00    | 75.41   | 340  |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 10/29/1981 | 22:36 | 10/31/1981 | 8:32     | 33.93   | 1060 |                                   |
| 521 | 178 | Oak Creek #7 | 200  |     | D1 | 11/3/1981  | 6:45  | 11/4/1981  | 14:00    | 31.25   | 340  |                                   |
| 521 | 178 | Oak Creek #7 | 202  |     | D1 | 11/5/1981  | 11:10 | 11/7/1981  | 6:15     | 43.08   | 340  |                                   |
| 521 | 178 | Oak Creek #7 | 227  |     | D1 | 11/7/1981  | 6:15  | 11/9/1981  | 7:15     | 49      | 340  |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 11/7/1981  | 19:50 | 11/8/1981  | 3:55     | 8.08    | 340  |                                   |
| 521 | 178 | Oak Creek #7 | 207  |     | D1 | 11/9/1981  | 7:15  | 11/9/1981  | 21:30    | 14.25   | 340  |                                   |
| 521 | 178 | Oak Creek #7 | 147  |     | D1 | 11/9/1981  | 21:30 | 11/14/1981 | 21:28    | 119.96  | 340  |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 11/14/1981 | 21:28 | 11/15/1981 | 6:52     | 9.39    | 8560 |                                   |
| 521 | 178 | Oak Creek #7 | 150  |     | D1 | 11/15/1981 | 6:25  | 11/16/1981 | 5:00     | 22.58   | 340  |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 11/19/1981 | 12:38 | 11/21/1981 | 13:24    | 48.76   | 1000 |                                   |
| 521 | 178 | Oak Creek #7 | 220  |     | D1 | 11/27/1981 | 9:12  | 11/27/1981 | 16:30    | 7.3     | 340  |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 11/27/1981 | 19:30 | 11/29/1981 | 18:08    | 46.63   | 1060 |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 12/3/1981  | 22:03 | 12/5/1981  | 9:37     | 35.56   | 1000 |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 12/6/1981  | 8:57  | 12/6/1981  | 9:43     | 0.76    | 9270 |                                   |
| 521 | 178 | Oak Creek #7 | 142  |     | D1 | 12/6/1981  | 13:10 | 12/6/1981  | 16:30    | 3.33    | 340  |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 12/7/1981  | 13:42 | 12/7/1981  | 16:22    | 2.66    | 9900 |                                   |
| 521 | 178 | Oak Creek #7 | 200  |     | D1 | 12/11/1981 | 5:00  | 12/11/1981 | 17:00    | 12      | 340  |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 12/13/1981 | 3:54  | 12/14/1981 | 1:56     | 22.03   | 8560 |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 12/16/1981 | 12:04 | 12/19/1981 | 7:19     | 67.25   | 1000 |                                   |
| 521 | 178 | Oak Creek #7 | 220  |     | D1 | 12/21/1981 | 10:57 | 12/22/1981 | 7:40     | 20.71   | 740  |                                   |
| 521 | 178 | Oak Creek #7 | 120  |     | D1 | 12/22/1981 | 7:30  | 12/22/1981 | 15:00    | 7.5     | 920  |                                   |
| 521 | 178 | Oak Creek #7 | 220  |     | D1 | 12/22/1981 | 15:00 | 12/25/1981 | 8:34     | 65.56   | 740  |                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 12/24/1981 | 11:03 | 12/25/1981 | 8:34     | 21.51   | 1850 |                                   |
| 521 | 178 | Oak Creek #7 | 200  |     | D1 | 12/30/1981 | 6:00  | 12/31/1981 | 24:00:00 | 42      | 340  |                                   |
| 521 | 178 | Oak Creek #7 | 140  |     | D1 | 12/31/1981 | 8:00  | 12/31/1981 | 24:00:00 | 16      | 9290 |                                   |
| 521 | 178 | Oak Creek #7 | 000* | 60  | D1 | 1/1/1982   | 0:01  | 1/1/1982   | 5:00     | 4.98    | 9290 | POOR COAL                         |
| 521 | 178 | Oak Creek #7 | 000* | 90  | D3 | 1/1/1982   | 5:00  | 1/1/1982   | 12:20    | 7.33    | 340  | 72 MILL, OVERHAUL GEARCASE        |
| 521 | 178 | Oak Creek #7 | 000* | 57  | D1 | 1/1/1982   | 12:20 | 1/2/1982   | 2:45     | 14.41   | 9270 | WET COAL                          |
| 521 | 178 | Oak Creek #7 |      |     | NC | 1/2/1982   | 2:45  | 1/3/1982   | 10:00    | 31.25   | 340  | 75 MILL, OVERHAUL                 |
| 521 | 178 | Oak Creek #7 | 000* | 30  | D1 | 1/3/1982   | 10:00 | 1/14/1982  | 13:03    | 267.04  | 310  | MILL, MILL PROBLEMS               |
| 521 | 178 | Oak Creek #7 |      |     | U3 | 1/7/1982   | 23:23 | 1/14/1982  | 13:07    | 157.73  | 1000 | BOILER, FURNACE WATER TUBE LEAK   |
| 521 | 178 | Oak Creek #7 | 000* | 240 | PD | 1/25/1982  | 6:00  | 1/31/1982  | 24:00:00 | 162     | 310  | 74 MILL PULVERIZER, OVERHAUL MILL |

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|     |     |              |      |     |    |           |       |           |       |        |      |  |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|--|
| 521 | 178 | Oak Creek #7 | 000* | 115 | D1 | 1/25/1982 | 11:12 | 1/28/1982 | 3:00  | 63.8   | 8550 | PRECIPITATOR, INLET AND OUTLET FIELDS IN LINE ARE TRIPPED                      |
| 521 | 178 | Oak Creek #7 | 000* | 240 | PD | 1/25/1982 | 6:00  | 2/4/1982  | 0:01  | 234.01 | 310  | 74 MILL PULVERIZER, OVERHAUL MILL  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 1/26/1982 | 23:17 | 1/27/1982 | 8:45  | 9.46   | 8560 | CLEAR PRECIP GROUNDS   |
| 521 | 178 | Oak Creek #7 | 000* | 225 | D1 | 1/28/1982 | 3:00  | 1/28/1982 | 8:45  | 5.75   | 380  | IGNITION OIL SYS, ELECTRICAL FAILURE OF CANNON PLUG ON PILOT TORCH CONTROL BOX |
| 521 | 178 | Oak Creek #7 |      |     | U3 | 2/6/1982  | 22:17 | 2/7/1982  | 17:33 | 19.26  | 8550 | PRECIPITATOR FIELD GRND, OUT TO CLEAR PRECIP GROUNDS AND EMPTY HOPPERS         |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 2/10/1982 | 9:00  | 2/11/1982 | 7:00  | 22     | 880  | FLYASH SYSTEM, PULL DOWN HIGH LEVELS OF FLYASH-CAUSE OF STACK OPACITY          |
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 2/11/1982 | 7:00  | 2/12/1982 | 9:00  | 26     | 880  | FLYASH SYSTEM, HIGH ASH LEVELS RESULTS IN STACK OPACITY                        |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 2/12/1982 | 9:00  | 2/12/1982 | 17:00 | 8      | 8560 | POOR PRECIPITATOR PERFORMANCE CAUSING HIGH OPACITY                             |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 2/14/1982 | 21:00 | 2/15/1982 | 11:50 | 14.83  | 250  | PULVERIZER FEEDER, TORN BELT ON GRAVIMETRIC FEEDER                             |
| 521 | 178 | Oak Creek #7 |      |     | U2 | 2/17/1982 | 9:59  | 2/18/1982 | 22:32 | 36.55  | 890  | REMOVE BOTTOM ASH FROM ASH PIT AND INCLINE                                     |
| 521 | 178 | Oak Creek #7 | 000* | 185 | D1 | 2/19/1982 | 11:00 | 2/25/1982 | 3:00  | 136    | 8570 | PRECIPITATOR PERFORMANCE CAUSING HIGH EMISSION                                 |
| 521 | 178 | Oak Creek #7 |      |     | U2 | 2/21/1982 | 20:51 | 2/23/1982 | 21:55 | 49.06  | 1060 | OUT TO REPAIR REHEAT PENDENT LEAK ELEV 121                                     |
| 521 | 178 | Oak Creek #7 | 000* | 185 | D1 | 2/24/1982 | 17:00 | 2/25/1982 | 3:00  | 10     | 9600 | STACK EMISSIONS, UNKNOWN HELD LOAD AND REDUCED AIR FLOW TO MINIMUM             |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 2/26/1982 | 3:00  | 2/28/1982 | 12:00 | 57     | 8560 | PRECIPITATOR FIELD AO1 GROUNDED  |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 2/26/1982 | 3:00  | 2/28/1982 | 12:00 | 57     | 8560 | PRECIPITATOR FIELD AO1 GROUNDED  |
| 521 | 178 | Oak Creek #7 | 000* | 230 | D1 | 2/28/1982 | 18:00 | 3/1/1982  | 2:00  | 8      | 8560 | PRECIPITATOR, HIGH OPACITY WHEN BLOWING SOOT BLOWERS DROPPED LOAD              |
| 521 | 178 | Oak Creek #7 | 000* | 230 | D1 | 2/28/1982 | 18:00 | 3/1/1982  | 2:00  | 8      | 8560 | PRECIPITATOR, HIGH OPACITY WHEN BLOWING SOOT BLOWERS DROPPED LOAD              |
| 521 | 178 | Oak Creek #7 | 000* | 230 | D1 | 2/28/1982 | 18:00 | 3/1/1982  | 2:00  | 8      | 8560 | PRECIPITATOR, HIGH OPACITY WHEN BLOWING SOOT BLOWERS DROPPED LOAD              |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 3/1/1982  | 2:00  | 3/2/1982  | 2:00  | 24     | 1000 | BOILER, UNIT CONDITION   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/7/1982  | 1:55  | 3/7/1982  | 23:50 | 21.91  | 1060 | REHEAT PENDANT TUBE RUPTURE.   |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 3/9/1982  | 9:15  | 3/10/1982 | 2:00  | 16.75  | 880  | FLYASH SYS TROUBLES, SYS OUT TO REPLACE SEVERAL SOV'S                          |
| 521 | 178 | Oak Creek #7 | 000* | 245 | D1 | 3/10/1982 | 2:00  | 3/11/1982 | 5:00  | 27     | 60   | BOILER, 75 MILL SYSTEM OUT FOR REPAIRS   |

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|     |     |              |      |     |    |           |       |           |       |        |      |   |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|---|
| 521 | 178 | Oak Creek #7 |      |     | PO | 3/13/1982 | 1:33  | 4/16/1982 | 13:32 | 827.98 | 1800 | BOILER AND TURBINE, ANNUAL OUTAGE   |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 4/19/1982 | 2:00  | 4/19/1982 | 15:00 | 13     | 1850 | HIGH SILICA IN BOILER WATER   |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 4/19/1982 | 15:00 | 4/20/1982 | 13:00 | 22     | 310  | #75 PULVERIZER STUCK ROLLER   |
| 521 | 178 | Oak Creek #7 | 000* | 175 | D1 | 4/20/1982 | 13:00 | 4/21/1982 | 5:00  | 16     | 310  | ADJUST ROLLERS ON ALL 5 PULVERIZERS   |
| 521 | 178 | Oak Creek #7 | 000* | 160 | PD | 4/21/1982 | 23:30 | 4/22/1982 | 6:15  | 6.75   | 3416 | 72 BOILER FEED PUMP VENT LINE REPAIR  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 4/22/1982 | 11:51 | 4/23/1982 | 19:00 | 31.15  | 1000 | BOILER, LOWER EAST WALL WATER TUBE RUPTURE                                      |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 4/23/1982 | 19:01 | 5/1/1982  | 10:52 | 183.85 | 740  | 71/72 BBP MOTOR BEARINGS DAMAGED  |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 5/1/1982  | 10:52 | 5/10/1982 | 8:06  | 213.23 | 3313 | 71 BB PUMP OUT FOR REPAIR   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 5/4/1982  | 0:44  | 5/4/1982  | 7:14  | 6.5    | 8560 | REMOVE WIRE GROUND FROM PRECIP INLET AND CENTER                                 |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 5/8/1982  | 22:46 | 5/10/1982 | 8:06  | 33.33  | 1005 | REPAIR RUPTURED WATER WALL TUBE   |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 5/14/1982 | 11:30 | 5/14/1982 | 16:15 | 4.75   | 310  | 75 GREEN COAL FDR, BELT UNTRACKED-RETRACKED BELT AND CALIBRATED FEEDER          |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 5/21/1982 | 19:18 | 5/23/1982 | 8:06  | 36.8   | 1005 | BOILER, WATER TUBE RUPTURE IN AREA OF DRIP SCREEN AT ASH PIT WATER SEAL         |
| 521 | 178 | Oak Creek #7 | 000* | 236 | D1 | 5/27/1982 | 9:15  | 5/30/1982 | 21:10 | 83.91  | 8560 | BROKEN PRECIP WIRES-REMOVED THREE BROKEN WIRES                                  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 5/30/1982 | 21:10 | 6/1/1982  | 3:47  | 30.61  | 1030 | WATER TUBE, LEAK NE CORNER BY FURNACE BOTTOM(REMOVE PRECIP WIRES)               |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 6/4/1982  | 18:14 | 6/6/1982  | 3:24  | 33.16  | 1005 | BOILER, WATER WALL TUBE RUPTURE   |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 6/7/1982  | 6:50  | 6/7/1982  | 12:20 | 5.5    | 1400 | 72 FD FAN-2 FAN BRG, COOL WTR NIPPLE CRCKED FORCING WTR INTO OIL RENEWED NIPPLE |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 6/19/1982 | 12:17 | 6/19/1982 | 17:36 | 5.31   | 8560 | REMOVE GROUNDS FROM TWO FIELDS OF THE PRECIPITATOR                              |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 6/20/1982 | 11:45 | 6/22/1982 | 20:30 | 56.75  | 1005 | BOILER, WATER TUBE LEAK UNDER NOSE WEST SIDE ON NORTH HOPPER                    |
| 521 | 178 | Oak Creek #7 |      |     | PO | 6/25/1982 | 23:26 | 6/27/1982 | 12:52 | 37.43  | 8560 | REMOVE BROKEN WIRE IN PRECIPITATOR  |
| 521 | 178 | Oak Creek #7 |      |     | U2 | 7/5/1982  | 0:02  | 7/6/1982  | 0:52  | 24.83  | 1030 | BOILER, WATER TUBE LEAK   |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 7/8/1982  | 7:00  | 7/8/1982  | 8:45  | 1.75   | 310  | 75 MILL, PYRITE GATE STUCK OPEN-REPAIRED FROZEN PIN                             |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 7/13/1982 | 13:11 | 7/18/1982 | 17:50 | 124.65 | 1005 | BOILER, WATER TUBE FAILURE  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 7/22/1982 | 0:04  | 7/26/1982 | 2:51  | 98.78  | 1030 | BOILER, REPAIR WATER WALL LEAK  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 7/26/1982 | 8:18  | 7/27/1982 | 6:19  | 22.01  | 1005 | REPAIR WATERWALL TUBE   |

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|     |     |              |      |     |    |            |       |            |       |       |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|-------|------|---|
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 8/4/1982   | 0:30  | 8/4/1982   | 5:15  | 4.75  | 310  | 71 MILL OUT DUE TO DAMAGED ROLLER JOURNAL                                       |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 8/7/1982   | 2:00  | 8/13/1982  | 2:00  | 144   | 310  | 73 MILL SYSTEM, MILL OVERHAUL AND WET COAL                                      |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 8/8/1982   | 1:33  | 8/8/1982   | 7:23  | 5.83  | 8560 | CLEAR PRECIPITATOR GROUNDS  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 8/11/1982  | 20:32 | 8/11/1982  | 21:10 | 0.63  | 1999 | BBP DIFF. PRESS. TRIP, WATER ENTERED ENCLOSURE AND ACTIVATED TRIP-RESTARTED UNI |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 8/25/1982  | 23:14 | 8/27/1982  | 11:00 | 35.76 | 1070 | BOILER, REHEAT PENDANT LEAK SOUTH SIDE EL 121                                   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 9/27/1982  | 17:12 | 10/1/1982  | 14:02 | 92.83 | 1000 | BOILER, WATER WALL TOP OF BURNERS SE CORNER                                     |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 10/5/1982  | 13:39 | 10/7/1982  | 14:55 | 49.26 | 1060 | BOILER, REHEATER PENDANT LEAK ON 4 CELL   |
| 521 | 178 | Oak Creek #7 | 000* | 255 | D1 | 10/13/1982 | 13:04 | 10/14/1982 | 2:00  | 12.93 | 310  | 71 MILL PULVERIZER, REPLACE BROKEN PYRITE SCRAPER SHOES                         |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 10/15/1982 | 10:55 | 10/16/1982 | 1:30  | 14.58 | 340  | 73 MILL PULVERIZER REPAIR BROKEN PYRITE SCRAPER                                 |
| 521 | 178 | Oak Creek #7 | 000* | 235 | D1 | 10/17/1982 | 12:00 | 10/20/1982 | 7:35  | 67.58 | 1005 | BOILER, REDUCED THROTTLE PRESSURE BECAUSE OF WATER WALL LEAK ELEV 87 SE CORNER  |
| 521 | 178 | Oak Creek #7 | 000* | 135 | D1 | 10/17/1982 | 14:05 | 10/17/1982 | 22:00 | 7.91  | 3415 | REPAIR CAUSE OF LOW LUBE OIL PRESSURE ON 72 BOILER FEED PUMP                    |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 10/20/1982 | 7:35  | 10/20/1982 | 9:59  | 2.4   | 1005 | BOILER, REDUCED THROTTLE PRESSURE BECAUSE OF WATER WALL LEAK ELEV 87 SE CORNER  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 10/20/1982 | 9:59  | 10/23/1982 | 1:20  | 63.35 | 1005 | BOILER, REPAIR WATER WALL LEAK ELEV 87 SE VORNER                                |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 10/24/1982 | 16:15 | 10/24/1982 | 20:00 | 3.75  | 1850 | HIGH SILICA IN BOILER WATER   |
| 521 | 178 | Oak Creek #7 | 000* | 185 | D1 | 11/2/1982  | 10:30 | 11/3/1982  | 4:30  | 18    | 8550 | PRECIPITATOR PROBLEMS DUE TO MOISTURE CAUSING FIELD PROBLEMS                    |
| 521 | 178 | Oak Creek #7 |      |     | U2 | 11/3/1982  | 21:53 | 11/8/1982  | 19:53 | 118   | 1000 | REPAIR BOILER WATER WALL AND REHEAT TUBE LEAKS                                  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 11/25/1982 | 6:24  | 11/28/1982 | 10:34 | 76.16 | 1005 | BOILER, REPAIR WATER WALL LEAK  |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 11/29/1982 | 3:00  | 11/30/1982 | 1:45  | 22.75 | 250  | 74 MILL, REPAIR TORN BELT ON 74 MILL GRAVIMETRIC FEEDER BELT                    |
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 11/30/1982 | 1:45  | 11/30/1982 | 21:56 | 20.18 | 1000 | REDUCED BOILER PRESSURE WATER WALL LEAKS  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 11/30/1982 | 21:56 | 12/3/1982  | 10:29 | 84.55 | 1100 | BOILER, REPAIR REHEAT AND WATER WALL LEAKS                                      |
| 521 | 178 | Oak Creek #7 |      |     | U2 | 12/20/1982 | 20:50 | 12/24/1982 | 2:03  | 77.21 | 1000 | REPAIR FRONT WATER WALL LEAK AT B3 SOOT BLOWER                                  |
| 521 | 178 | Oak Creek #7 | 000* | 165 | D1 | 12/24/1982 | 16:00 | 12/25/1982 | 0:30  | 8.5   | 1710 | BOILER FUEL MASTER CONTROL OUT OF SERVICE                                       |

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|     |     |              |      |     |    |            |       |            |       |        |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|--|
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 12/25/1982 | 0:30  | 12/26/1982 | 13:00 | 36.5   | 1710 | BOILER FUEL MASTER CONTROL OUT OF SERVICE  |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D2 | 12/29/1982 | 14:34 | 12/29/1982 | 17:33 | 2.98   | 250  | REPLACE 72 MILL GRAVIMETRIC FEEDER BELT  |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 1/4/1983   | 1:45  | 1/5/1983   | 21:47 | 44.03  | 1005 | REDUCED BOILER PRESSURE DUE TO WATER WALL TUBE LEAKAGE ON LOWER TUBES              |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 1/5/1983   | 21:46 | 1/9/1983   | 21:46 | 96     | 1005 | REPAIR WATER WALL LEAKS, & REPAIR GEN OIL CIRCUIT, BREAKER C PHASE.                |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 1/10/1983  | 1:42  | 1/10/1983  | 2:16  | 0.56   | 9900 | UNIT TRIPPED, OPERATOR ERROR   |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 1/17/1983  | 11:30 | 1/17/1983  | 17:30 | 6      | 310  | 75 MILL PYRITE SCRAPER BROKE-REPLACING   |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D3 | 1/23/1983  | 8:00  | 1/23/1983  | 14:30 | 6.5    | 310  | 71 PULVERIZER 40000 TON MILL INSPECTION  |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 1/25/1983  | 12:30 | 1/25/1983  | 21:00 | 8.5    | 310  | REPAIR COAL LEAK #74 MILL  |
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 1/27/1983  | 7:40  | 1/28/1983  | 2:44  | 19.06  | 1000 | REPAIR BOILER WATER WALL LEAKS   |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 1/28/1983  | 2:45  | 1/28/1983  | 7:40  | 4.91   | 1000 | WATER WALL LEAK  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 1/28/1983  | 7:41  | 1/31/1983  | 8:00  | 72.31  | 1005 | REPAIR BOILER WATER WALL LEAKS   |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 2/6/1983   | 15:45 | 2/7/1983   | 1:50  | 10.08  | 470  | MAKE NECESSARY REPAIRS TO OIL IGNITION SYSTEM                                      |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 2/7/1983   | 19:46 | 2/10/1983  | 3:34  | 55.8   | 1000 | REPAIR WATER WALL LEAK   |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 2/21/1983  | 7:00  | 2/22/1983  | 1:30  | 18.5   | 8560 | PRECIPITATOR CONTROL PROBLEMS  |
| 521 | 178 | Oak Creek #7 | 000* | 225 | D1 | 2/27/1983  | 14:00 | 2/28/1983  | 0:01  | 10.01  | 310  | 73 MILL SYSTEM OUT OF SERVICE PYRITE SCRAPER BROKEN                                |
| 521 | 178 | Oak Creek #7 | 000* | 165 | D1 | 3/4/1983   | 6:08  | 3/4/1983   | 9:00  | 2.86   | 380  | LOSS OF MEMORY ON FSSS IGNITION SYSTEM INTERLOCK SYSTEM PREVENTS STARTING OF MILLS |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 3/7/1983   | 2:30  | 3/8/1983   | 23:32 | 45.03  | 1005 | WATER WALL LEAK REDUCED PRESSURE ON DRUM   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/8/1983   | 23:32 | 3/11/1983  | 12:26 | 60.9   | 1005 | REPAIR WATER WALL LEAK   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/15/1983  | 22:44 | 3/18/1983  | 1:50  | 51.1   | 1030 | WATER TUBE LEAK LOWER INCLINE SOUTH SIDE   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/22/1983  | 14:49 | 3/25/1983  | 17:50 | 75.01  | 1000 | REPAIR WATER TUBE LEAK   |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 4/2/1983   | 12:30 | 4/4/1983   | 0:20  | 35.83  | 250  | 73 GRAVIMETRIC FEEDER BELT REPLACEMENT   |
| 521 | 178 | Oak Creek #7 |      |     | PO | 4/9/1983   | 6:05  | 5/9/1983   | 2:12  | 716.11 | 1800 | PLANNED ANNUAL OUTAGE  |
| 521 | 178 | Oak Creek #7 | 000* | 175 | D1 | 5/10/1983  | 9:00  | 5/10/1983  | 10:45 | 1.75   | 330  | REPAIR COAL LEAK ON #72 PULVERIZER   |
| 521 | 178 | Oak Creek #7 | 000* | 175 | D1 | 5/10/1983  | 16:30 | 5/10/1983  | 22:15 | 5.75   | 250  | 72 GRAVIMETRIC FEEDER CALIBRATION SYSTEM FAILURE                                   |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 5/11/1983  | 6:45  | 5/12/1983  | 21:30 | 38.75  | 1420 | #71 FORCED DRAFT FAN-#1 BEARING OVERHEATING  |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 5/13/1983  | 0:45  | 5/13/1983  | 6:25  | 5.66   | 1455 | #72 INDUCED DRAFT FAN BALANCING  |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 5/17/1983  | 8:00  | 5/17/1983  | 10:45 | 2.75   | 9620 | STACK EMISSIONS CAUSE UNKNOWN  |

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|     |     |              |      |     |    |           |       |           |       |        |      |   |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|---|
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 5/17/1983 | 10:45 | 5/17/1983 | 22:21 | 11.6   | 8560 | PRECIPITATOR FIELD B-3 GROUNDED<br>STACK EMISSIONS                                    |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 5/17/1983 | 10:45 | 5/19/1983 | 10:00 | 47.25  | 200  | #74 MILL OUT-COAL CONDITIONS  |
| 521 | 178 | Oak Creek #7 | 000* | 160 | D1 | 5/19/1983 | 10:00 | 5/20/1983 | 1:00  | 15     | 340  | 73 MILL PULVERIZER-BROKEN PYRITE<br>SCRAPER   |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D2 | 5/20/1983 | 18:00 | 5/21/1983 | 1:30  | 7.5    | 200  | #74 MILL OUT-COAL CONDITIONS  |
| 521 | 178 | Oak Creek #7 | 000* | 225 | D1 | 5/20/1983 | 7:00  | 5/20/1983 | 18:00 | 11     | 9630 | HIGH STACK OPACITY  |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 5/20/1983 | 1:00  | 5/20/1983 | 7:00  | 6      | 200  | #74 MILL OUT-COAL CONDITIONS  |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 5/21/1983 | 5:40  | 5/21/1983 | 22:39 | 16.98  | 200  | #74 MILL OUT-COAL CONDITIONS  |
| 521 | 178 | Oak Creek #7 | 000* | 130 | PD | 5/21/1983 | 1:30  | 5/21/1983 | 5:40  | 4.16   | 3410 | 71 BOILER FEED PUMP OUT TO REPAIR<br>SEAL WATER TRAP                                  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 5/21/1983 | 22:39 | 5/22/1983 | 0:46  | 2.11   | 4261 | CONTROL VALVES CLOSED UNIT<br>TRIPPED ON REVERSE POWER RELAY                          |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 5/22/1983 | 17:26 | 6/1/1983  | 16:19 | 238.88 | 540  | REPAIR REHEAT LEAKS   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 5/22/1983 | 0:55  | 5/22/1983 | 1:33  | 0.63   | 770  | BOILER BOOSTER PUMP TRIP DUE TO<br>A-LOW DRUM LEVEL                                   |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 5/22/1983 | 1:33  | 5/22/1983 | 17:26 | 15.88  | 200  | #74 MILL OUT-COAL CONDITIONS  |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 6/15/1983 | 7:20  | 6/15/1983 | 10:50 | 3.5    | 3501 | 72 STEAM AIR HTR DRAIN PUMP-73<br>HTR DRAIN PUMP-77 H.P. HTR<br>FLASHING TO CONDENSER |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 6/15/1983 | 21:50 | 6/19/1983 | 5:00  | 79.16  | 3440 | 76 AND 77 HP FEEDWATER HEATERS<br>OUT TO REPAIR INTERNAL LEAKS                        |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 6/19/1983 | 5:00  | 6/20/1983 | 11:53 | 30.88  | 1510 | REPAIR 72 ID FAN DUCTWORK   |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 6/21/1983 | 2:00  | 6/21/1983 | 6:00  | 4      | 1850 | HIGH BOILER WATER SILICA  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 6/22/1983 | 20:16 | 6/24/1983 | 7:02  | 34.76  | 1060 | TOOK UNIT OUT TO REPAIR REHEAT<br>LEAK  |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D2 | 6/25/1983 | 0:01  | 6/25/1983 | 2:00  | 1.98   | 3415 | 71 BOILER FEED PUMP OUT TO<br>INSPECT LUBE OIL SYSTEM                                 |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 7/1/1983  | 23:00 | 7/2/1983  | 10:45 | 11.75  | 3411 | 71 AND 73 BOILER FEED PUMPS OUT<br>OF SERVICE   |
| 521 | 178 | Oak Creek #7 | 000* | 120 | D1 | 7/8/1983  | 7:30  | 7/8/1983  | 8:30  | 1      | 1420 | CHANGE OIL IN FORCE DRAFT FAN<br>BEARING  |
| 521 | 178 | Oak Creek #7 | *    |     | U3 | 7/9/1983  | 0:10  | 7/10/1983 | 5:02  | 28.86  | 1050 | SUPERHEAT PLATEN ASSEMBLY LEAK<br>ELEVATION 121                                       |
| 521 | 178 | Oak Creek #7 | 000* | 130 | D1 | 7/12/1983 | 1:30  | 7/12/1983 | 4:30  | 3      | 1420 | 71 FORCED DRAFT FAN OUT TO<br>REPAIR COOLER LEAK                                      |
| 521 | 178 | Oak Creek #7 | 000* | 135 | D2 | 7/23/1983 | 0:30  | 7/23/1983 | 5:45  | 5.25   | 1420 | REPAIR COOLING WATER JACKET ON<br>71 FD FAN BEARING #1                                |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 7/26/1983 | 10:00 | 8/1/1983  | 2:00  | 136    | 290  | COMBINATION OF 4 MILL OPERATION<br>AND POOR GRADE OF COAL                             |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 8/1/1983  | 2:00  | 8/3/1983  | 13:00 | 59     | 290  | COMBINATION OF 4 MILL OPERATION<br>AND COAL QUALITY                                   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/5/1983  | 21:20 | 8/6/1983  | 13:38 | 16.29  | 1030 | REPAIR WATER TUBE LEAK EL 19  |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 8/8/1983  | 23:45 | 8/9/1983  | 14:00 | 14.25  | 200  | 73 MILL OUT OF SERVICE-COAL<br>CONDITIONS   |

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|     |     |              |      |     |    |            |       |            |       |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---|
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/9/1983   | 22:47 | 8/12/1983  | 22:25 | 71.63  | 1000 | UNIT OUT TO REPAIR WATER WALL LEAK                              |
| 521 | 178 | Oak Creek #7 | 000* | 120 | D1 | 8/13/1983  | 7:55  | 8/13/1983  | 20:00 | 12.08  | 3504 | #7 HP HEATER CONDENSATE DRAIN VALVE TO #6 HEATER GASKET BLOWN   |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 8/19/1983  | 2:00  | 8/20/1983  | 1:30  | 23.5   | 8550 | PRECIPITATOR PERFORMANCE  |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 8/20/1983  | 7:15  | 8/23/1983  | 2:00  | 66.75  | 8560 | PRECIPITATOR PROBLEMS   |
| 521 | 178 | Oak Creek #7 | 000* | 140 | D1 | 8/20/1983  | 1:30  | 8/20/1983  | 7:15  | 5.75   | 3415 | 71 BFP REPAIR TO OIL SYSTEM                                     |
| 521 | 178 | Oak Creek #7 | 000* | 215 | D1 | 8/24/1983  | 15:04 | 8/24/1983  | 21:00 | 5.93   | 310  | REPAIR PYRITE SCRAPER ON 72 MILL PULVERIZER                     |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 8/25/1983  | 2:00  | 9/3/1983   | 0:08  | 214.13 | 3299 | HIGH LAKE TEMP CAUSING EXCESSIVE CONDENSER BACK PRESSURE        |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 9/3/1983   | 0:08  | 9/8/1983   | 13:55 | 133.78 | 1000 | WATER WALL LEAK   |
| 521 | 178 | Oak Creek #7 | 000* | 225 | D1 | 9/9/1983   | 2:00  | 9/10/1983  | 2:00  | 24     | 1850 | HIGH SILICA IN BOILER WATER                                     |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 9/12/1983  | 1:44  | 9/12/1983  | 2:12  | 0.46   | 380  | LOW COAL FLOW TRIP ON START BY OIL PUMP - FSSS PROBLEM.         |
| 521 | 178 | Oak Creek #7 | 000* | 100 | D1 | 9/17/1983  | 10:15 | 9/17/1983  | 18:30 | 8.25   | 1200 | FURNACE SLAGGED-APERATURE PLUGGED & WATER WALLS HEAVILY SLAGGED |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 9/17/1983  | 18:30 | 9/17/1983  | 20:50 | 2.33   | 870  | T-30 SOOTBLOWERS OUT OF SERVICE                                 |
| 521 | 178 | Oak Creek #7 | 000* | 100 | D1 | 9/18/1983  | 9:30  | 9/19/1983  | 2:00  | 16.5   | 1200 | APERATURE SLAGGED REHEAT PENDANTS                               |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 9/19/1983  | 5:45  | 9/19/1983  | 18:47 | 13.03  | 9270 | WET GREEN COAL AND 74 MILL OUT OF SERVICE                       |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 9/19/1983  | 18:47 | 9/26/1983  | 3:20  | 152.55 | 1140 | SUPERHEAT PENDANT TUBE RUPTURE                                  |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 9/30/1983  | 15:42 | 10/2/1983  | 6:43  | 39.01  | 1060 | REHEAT TUBE RUPTURE   |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 10/21/1983 | 18:00 | 10/23/1983 | 21:35 | 51.58  | 3411 | HIGH TEMPERATURE WEST #1 MOTOR BEARING ON 71 BFP                |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 10/25/1983 | 19:30 | 10/28/1983 | 23:20 | 75.83  | 1000 | REDUCED BOILER PRESSURE BECAUSE OF WATER WALL LEAK              |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 10/28/1983 | 23:19 | 10/30/1983 | 4:37  | 29.3   | 1005 | REPAIR WATER WALL LEAK SOUTH-EAST CORNER OF EL 48               |
| 521 | 178 | Oak Creek #7 | 000* | 140 | D1 | 10/31/1983 | 9:15  | 10/31/1983 | 9:55  | 0.66   | 3410 | #73 BLR FD PUMP NOISY AT LP PUMP & MOTOR                        |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 11/2/1983  | 17:30 | 11/3/1983  | 7:15  | 13.75  | 9250 | LOW BTU COAL  |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 11/5/1983  | 16:35 | 11/5/1983  | 19:00 | 2.41   | 3413 | OIL LEAK 72 BLR FEED PUMP COUPLING                              |
| 521 | 178 | Oak Creek #7 | 000* | 180 | D1 | 11/9/1983  | 11:00 | 11/9/1983  | 19:30 | 8.5    | 310  | 71 & 72 MILLS OUT OF SERVICE                                    |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 11/9/1983  | 19:30 | 11/10/1983 | 1:00  | 5.5    | 9250 | POOR QUALITY COAL.  |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 11/10/1983 | 1:00  | 11/10/1983 | 6:00  | 5      | 310  | 74 & 72 MILLS OUR FOR REPAIRS                                   |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 11/10/1983 | 6:00  | 11/12/1983 | 21:30 | 63.5   | 9250 | POOR QUALITY OF COAL  |
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 11/12/1983 | 21:30 | 11/13/1983 | 2:50  | 5.33   | 8430 | HIGH OPACITY  |
| 521 | 178 | Oak Creek #7 | 000* | 160 | D1 | 11/13/1983 | 2:50  | 11/13/1983 | 19:00 | 16.16  | 1400 | HIGH AXIAL VIBRATION ON 71 FD FAN                               |

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|     |     |              |      |     |    |            |       |            |          |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|--------|------|---|
| 521 | 188 | Oak Creek #8 | 000* | 140 | D1 | 10/28/1983 | 5:45  | 10/28/1983 | 9:15     | 3.5    | 3410 | 81 LOW PRESSURE BOILER FEED PUMP BEING REPACKED                                 |
| 521 | 188 | Oak Creek #8 | 000* | 140 | D1 | 10/28/1983 | 10:30 | 10/28/1983 | 12:30    | 2      | 3410 | 81 LOW PRESSURE BOILER FEED PUMP BEING REPACKED                                 |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 10/28/1983 | 16:15 | 10/28/1983 | 20:20    | 4.08   | 3501 | HIGH CONDENSER HOTWELL LEVEL-#1 & 2 AND #86 FEEDWATER HEATER DRAIN PUMPS O.O.S. |
| 521 | 188 | Oak Creek #8 | 000* | 170 | D1 | 11/5/1983  | 15:45 | 11/5/1983  | 21:40    | 5.91   | 1140 | SUPERHEAT PENDANTS FOULING  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/5/1983  | 21:40 | 11/6/1983  | 18:18    | 20.63  | 1040 | REPAIR SUPERHEAT LEAK   |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 11/7/1983  | 0:45  | 11/7/1983  | 6:05     | 5.33   | 1850 | HIGH SILICA IN BOILER WATER   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/7/1983  | 8:44  | 11/10/1983 | 8:41     | 71.94  | 1040 | REPAIR SUPERHEAT LEAK   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/11/1983 | 5:35  | 11/13/1983 | 18:24    | 60.81  | 1040 | REPAIR SUPERHEAT LEAK   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/15/1983 | 18:42 | 11/24/1983 | 22:00    | 219.3  | 1040 | REPAIR SUPERHEAT LEAK   |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 11/24/1983 | 22:00 | 12/1/1983  | 1:00     | 171    | 1310 | WATER SIDE FOULING CLEANING   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/1/1983  | 1:01  | 12/11/1983 | 17:01    | 256    | 1005 | REPAIR WATER TUBE LEAKS   |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 12/12/1983 | 2:00  | 12/12/1983 | 3:31     | 1.51   | 1850 | HIGH SILICA IN BLR WATER  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/12/1983 | 3:31  | 12/12/1983 | 4:29     | 0.96   | 740  | BBP DIFFERENTIAL TRIP DURING TESTING  |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 12/12/1983 | 4:29  | 12/13/1983 | 2:30     | 22.01  | 1850 | HIGH SILICA IN BLR WATER  |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 12/13/1983 | 2:30  | 12/15/1983 | 1:45     | 47.25  | 1850 | HIGH SILICA IN BLR WATER  |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 12/15/1983 | 1:45  | 12/16/1983 | 1:45     | 24     | 1850 | HIGH SILICA IN BLR WATER  |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 12/16/1983 | 1:45  | 12/16/1983 | 5:50     | 4.08   | 770  | BLR RECIRCULATION PMP PRESSURE LOW  |
| 521 | 188 | Oak Creek #8 | 000* | 100 | D1 | 12/17/1983 | 18:15 | 12/19/1983 | 12:00    | 41.75  | 880  | FLYASH SYSTEM PROBLEMS  |
| 521 | 188 | Oak Creek #8 | 000* | 186 | D1 | 12/19/1983 | 12:00 | 12/19/1983 | 17:00    | 5      | 880  | FLYASH SYSTEM PROBLEMS  |
| 521 | 188 | Oak Creek #8 | 000* | 135 | D1 | 12/19/1983 | 18:00 | 12/20/1983 | 6:00     | 12     | 880  | FLYASH SYSTEM PROBLEMS  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/22/1983 | 1:53  | 12/23/1983 | 6:45     | 28.86  | 1040 | SUPERHEAT LEAK  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/23/1983 | 6:46  | 12/23/1983 | 11:48    | 5.03   | 4250 | HIGH VIB ON B LOW PRESS TURB  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/27/1983 | 3:00  | 12/28/1983 | 3:09     | 24.15  | 1040 | SUPERHEAT LEAK  |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 12/29/1983 | 4:30  | 12/31/1983 | 24:00:00 | 67.5   | 1350 | REDUCED PRESS SUPHT TUBE. EVENT CONTINUES IN '84 SEE EVENT NO. 1                |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 1/1/1984   | 0:00  | 1/6/1984   | 11:05    | 131.08 | 1350 | REDUCED PRESS, SUPHT TUBE. EVENT STARTED 12/29/83 04:30, '83 EVENT NO. 113.     |
| 521 | 188 | Oak Creek #8 | 000* | 245 | D1 | 1/6/1984   | 11:05 | 1/8/1984   | 13:45    | 50.66  | 3501 | HEATER DRAIN PUMPS  |
| 521 | 188 | Oak Creek #8 | 000* | 261 | D1 | 1/8/1984   | 13:45 | 1/11/1984  | 1:15     | 59.5   | 3501 | HEATER DRAIN PUMPS  |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 1/11/1984  | 1:15  | 1/16/1984  | 1:15     | 120    | 1350 | REDUCED PRESS. FOR RELIABILITY  |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D4 | 1/16/1984  | 1:15  | 1/19/1984  | 7:10     | 77.91  | 310  | OVERHAUL 85 MILL  |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D4 | 1/19/1984  | 7:10  | 1/21/1984  | 3:00     | 43.83  | 310  | OVERHAUL 85 MILL  |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D4 | 1/21/1984  | 3:00  | 1/27/1984  | 6:24     | 147.39 | 310  | OVERHAUL 85 MILL  |
| 521 | 188 | Oak Creek #8 | 000* | 245 | D1 | 1/27/1984  | 6:24  | 1/27/1984  | 8:00     | 1.6    | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 1/27/1984  | 8:00  | 1/29/1984  | 1:00     | 41     | 310  | OVERHAUL 85 MILL  |
| 521 | 188 | Oak Creek #8 | 000* | 245 | D1 | 1/29/1984  | 1:00  | 1/29/1984  | 11:00    | 10     | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 1/29/1984  | 11:00 | 2/3/1984   | 9:30     | 118.5  | 310  | OVERHAUL 85 MILL  |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 2/3/1984   | 9:30  | 2/3/1984   | 22:28    | 12.96  | 1200 | OPERATION AT REDUCED POWER  |

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|     |     |              |      |     |    |            |       |            |          |        |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|--------|------|--|
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 11/13/1983 | 19:00 | 11/16/1983 | 1:45     | 54.75  | 9250 | POOR QUALITY OF COAL   |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 11/21/1983 | 8:25  | 11/26/1983 | 8:00     | 119.58 | 310  | #72 MILL OUT FOR REPAIRS   |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 11/26/1983 | 8:00  | 11/26/1983 | 13:20    | 5.33   | 310  | #72 & #73 MILL O.O.S. 72 SHAFT REPAIR #73 GRAVIMETRIC FDR                              |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 11/27/1983 | 12:30 | 11/28/1983 | 0:30     | 12     | 310  | #72 MILL OUT   |
| 521 | 178 | Oak Creek #7 | 000* | 245 | D1 | 11/28/1983 | 0:30  | 11/29/1983 | 2:00     | 25.5   | 1710 | BOILER CONTROL PROBLEMS  |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 11/29/1983 | 2:00  | 11/30/1983 | 2:00     | 24     | 9270 | WET COAL   |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 11/30/1983 | 23:12 | 12/1/1983  | 5:20     | 30.13  | 310  | REPAIR COAL LEAK ON 74 MILL  |
| 521 | 178 | Oak Creek #7 | 000* | 263 | D4 | 12/1/1983  | 8:00  | 12/1/1983  | 16:30    | 8.5    | 9690 | BURNING CHEMICAL REFUSE FROM OC8 BOILER CHEMICAL CLEANING                              |
| 521 | 178 | Oak Creek #7 | 000* | 263 | D4 | 12/1/1983  | 21:30 | 12/2/1983  | 4:00     | 6.5    | 9690 | BURNING CHEMICAL REFUSE FROM OC8   |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D2 | 12/2/1983  | 22:00 | 12/5/1983  | 6:00     | 56     | 1000 | WATER TUBE LEAK EL 19 REDUCED BLR PRESS 500# TO PREVENT FORCED OUTAGE                  |
| 521 | 178 | Oak Creek #7 | 000* | 235 | D1 | 12/6/1983  | 10:05 | 12/7/1983  | 1:00     | 14.91  | 1000 | WATER TUBE LK EL 19 REDUCED BLR PRESS 500#   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 12/8/1983  | 9:02  | 12/11/1983 | 18:47    | 81.75  | 1005 | WATER TUBE LEAK  |
| 521 | 178 | Oak Creek #7 | 000* | 225 | D1 | 12/12/1983 | 2:00  | 12/13/1983 | 2:30     | 24.5   | 1850 | HIGH SILICA IN BLR WATER   |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 12/26/1983 | 8:00  | 12/26/1983 | 23:45    | 15.75  | 1000 | REDUCED PRESS-WTR WALL TBE LEAK  |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 12/26/1983 | 23:45 | 12/30/1983 | 23:14    | 95.48  | 1000 | REDUCED PRESS.-WTR WALL LEAK   |
| 521 | 178 | Oak Creek #7 | *    |     | U3 | 12/30/1983 | 23:14 | 12/31/1983 | 24:00:00 | 24.76  | 1000 | REPAIR WATER WALL LEAK. EXTENDS INTO '84. SEE EVENT NO. 1                              |
| 521 | 178 | Oak Creek #7 |      |     | U3 | 1/1/1984   | 0:00  | 1/2/1984   | 1:56     | 25.93  | 1000 | REPAIR WTR WALL LEAK. OUTAGE STARTED IN '83, EVENT 99. ACTUAL STARTTIME 12/30/83 23:14 |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 1/2/1984   | 3:42  | 1/2/1984   | 4:10     | 0.46   | 9900 | PUSH BUTTON TRIP, HI DRUM PRESS.   |
| 521 | 178 | Oak Creek #7 |      |     | U2 | 1/3/1984   | 22:17 | 1/4/1984   | 1:45     | 3.46   | 1060 | REHEAT LEAK  |
| 521 | 178 | Oak Creek #7 | 000* | 120 | D1 | 1/4/1984   | 11:45 | 1/4/1984   | 18:30    | 6.75   | 880  | BAG HOUSE SYSTEM.  |
| 521 | 178 | Oak Creek #7 | 000* | 120 | D1 | 1/5/1984   | 7:15  | 1/6/1984   | 1:15     | 18     | 880  | FLYASH HANDLING EQUIPMENT.   |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 1/19/1984  | 7:55  | 1/19/1984  | 10:10    | 2.25   | 1850 | BOILER WATER CONDITIONS  |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 1/19/1984  | 10:10 | 1/19/1984  | 11:05    | 0.91   | 1850 | BOILER WATER CONDITIONS  |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 1/21/1984  | 3:00  | 1/23/1984  | 8:15     | 53.25  | 1530 | FLUE GAS PROBLEM   |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 1/24/1984  | 9:40  | 1/24/1984  | 12:30    | 2.83   | 1160 | DESLAGGING OF REHEATER   |
| 521 | 178 | Oak Creek #7 | 000* | 120 | D1 | 1/24/1984  | 12:30 | 1/24/1984  | 16:30    | 4      | 1160 | DESLAGGING OF REHEATER   |
| 521 | 178 | Oak Creek #7 | 000* | 225 | D1 | 1/26/1984  | 12:10 | 1/27/1984  | 2:00     | 13.83  | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 178 | Oak Creek #7 | 000* | 235 | D1 | 1/27/1984  | 6:24  | 1/27/1984  | 22:13    | 15.81  | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 1/27/1984  | 22:13 | 1/28/1984  | 20:35    | 22.36  | 760  | BOILER RECIRCULATION VALVE   |
| 521 | 178 | Oak Creek #7 | 000* | 225 | D1 | 1/29/1984  | 1:00  | 1/29/1984  | 23:21    | 22.35  | 1850 | BOILER WATER CONDITION   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 1/30/1984  | 13:41 | 2/3/1984   | 3:25     | 85.73  | 1005 | GENERATING TUBES   |
| 521 | 178 | Oak Creek #7 | 000* | 120 | D1 | 2/5/1984   | 0:30  | 2/5/1984   | 4:30     | 4      | 890  | BOTTOM ASH SYSTEM  |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 2/8/1984   | 5:25  | 2/8/1984   | 11:05    | 5.66   | 250  | 75 GRAVIMETRIC FEEDER  |
| 521 | 178 | Oak Creek #7 | 000* | 110 | D1 | 2/13/1984  | 15:00 | 2/13/1984  | 17:00    | 2      | 880  | FLYASH HANDLING  |
| 521 | 178 | Oak Creek #7 | 000* | 120 | D1 | 2/18/1984  | 11:05 | 2/18/1984  | 13:30    | 2.41   | 880  | FLYASH HANDLING  |
| 521 | 178 | Oak Creek #7 | 000* | 180 | D1 | 2/18/1984  | 13:30 | 2/18/1984  | 20:00    | 6.5    | 1470 | ID FAN MOTOR CLEAN   |

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|     |     |              |      |     |    |           |       |           |       |        |      |                                     |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|-------------------------------------|
| 521 | 178 | Oak Creek #7 | 000* | 130 | D1 | 2/25/1984 | 12:00 | 2/25/1984 | 15:30 | 3.5    | 1470 | ID FAN MOTOR CLEAN                  |
| 521 | 178 | Oak Creek #7 | 000* | 230 | D1 | 3/3/1984  | 17:00 | 3/4/1984  | 10:55 | 17.91  | 4261 | CONTROL VALVES                      |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 3/4/1984  | 10:55 | 3/5/1984  | 13:50 | 26.91  | 4261 | CNTRL VLVS BRKN STEM #4 VLV         |
| 521 | 178 | Oak Creek #7 |      |     | U3 | 3/5/1984  | 13:50 | 3/15/1984 | 11:25 | 237.58 | 4261 | CONTROL VALVES                      |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 3/16/1984 | 1:10  | 3/17/1984 | 7:00  | 29.83  | 1850 | BOILER WATER CONDITION              |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 3/17/1984 | 7:00  | 3/17/1984 | 10:00 | 3      | 1850 | BOILER WATER CONDITION              |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/23/1984 | 10:50 | 3/26/1984 | 2:50  | 64     | 1005 | GENERATING TUBE                     |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 3/28/1984 | 0:10  | 3/28/1984 | 4:30  | 4.33   | 320  | FOREIGN OBJECT IN MILL              |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/30/1984 | 7:19  | 4/2/1984  | 14:00 | 78.68  | 1005 | GENERATING TUBE                     |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 4/2/1984  | 14:00 | 4/2/1984  | 16:37 | 2.61   | 380  | LIGHT-OFF SYSTEMS                   |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 4/3/1984  | 2:00  | 4/3/1984  | 14:00 | 12     | 1850 | BOILER WATER CONDITION              |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D2 | 4/5/1984  | 21:00 | 4/5/1984  | 23:30 | 2.5    | 330  | COAL LEAK 73 MILL                   |
| 521 | 178 | Oak Creek #7 | 000* | 235 | D1 | 4/8/1984  | 4:20  | 4/8/1984  | 10:10 | 5.83   | 310  | 74 MILL - #2 ROLLER                 |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 4/9/1984  | 5:30  | 4/10/1984 | 3:50  | 22.33  | 250  | 71 GRAV FEEDER                      |
| 521 | 178 | Oak Creek #7 | 000* | 170 | D1 | 4/15/1984 | 5:30  | 4/15/1984 | 14:00 | 8.5    | 3411 | FEEDWATER PUMP MOTOR                |
| 521 | 178 | Oak Creek #7 | 000* | 255 | D1 | 4/16/1984 | 9:35  | 4/16/1984 | 20:30 | 10.91  | 8560 | ELECTROSTATIC PRECIPITATOR PROBLEMS |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 4/16/1984 | 20:30 | 4/17/1984 | 10:45 | 14.25  | 1530 | OTHER FLUE GAS PROBLEMS             |
| 521 | 178 | Oak Creek #7 | 000* | 192 | D1 | 4/17/1984 | 10:45 | 4/17/1984 | 11:30 | 0.75   | 4261 | CONTROL VALVES                      |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 4/17/1984 | 11:30 | 4/17/1984 | 18:00 | 6.5    | 1530 | OTHER FLU GAS PROBLEMS              |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 4/21/1984 | 21:22 | 4/24/1984 | 0:01  | 50.65  | 1005 | GENERATING TUBES                    |
| 521 | 178 | Oak Creek #7 |      |     | U2 | 4/24/1984 | 0:02  | 4/24/1984 | 3:00  | 2.96   | 690  | OTHER FEEDWATER PROBLEMS            |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 4/24/1984 | 3:00  | 4/24/1984 | 11:44 | 8.73   | 1005 | GENERATING TUBES                    |
| 521 | 178 | Oak Creek #7 | 000* | 193 | D1 | 4/24/1984 | 19:30 | 4/25/1984 | 1:45  | 6.25   | 1850 | BOILER WATER CONDITIONS             |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 4/26/1984 | 13:00 | 4/27/1984 | 14:00 | 25     | 1530 | OTHER FLU GAS PROBLEMS              |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 4/28/1984 | 7:30  | 4/28/1984 | 9:15  | 1.75   | 250  | PULV FDRS 75 GRAVIMETRIC            |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 4/28/1984 | 13:35 | 4/28/1984 | 20:10 | 6.58   | 330  | PULV COAL LEAK                      |
| 521 | 178 | Oak Creek #7 | 000* | 250 | PD | 4/29/1984 | 7:30  | 4/29/1984 | 12:20 | 4.83   | 250  | PULV FDRS 75 GRAVIMETRIC            |
| 521 | 178 | Oak Creek #7 | 000* | 110 | D3 | 5/4/1984  | 22:20 | 5/7/1984  | 2:55  | 52.58  | 265  | OTHER AIR PREHEATER PROBLEMS        |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 5/9/1984  | 16:10 | 5/9/1984  | 20:30 | 4.33   | 1400 | FD FAN-REPAIR WATER LEAK            |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 5/10/1984 | 4:18  | 5/13/1984 | 1:36  | 69.3   | 1005 | GENERATING TUBE LEAK                |
| 521 | 178 | Oak Creek #7 | 000* | 225 | D1 | 5/13/1984 | 1:36  | 5/14/1984 | 1:00  | 23.4   | 1850 | BLR WATER QUALITY                   |
| 521 | 178 | Oak Creek #7 | 000* | 225 | D1 | 5/14/1984 | 7:30  | 5/14/1984 | 10:30 | 3      | 8560 | ELECT STAT PRECIP PROB              |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 5/15/1984 | 11:14 | 5/20/1984 | 5:32  | 114.3  | 1050 | SECOND SUPERHEATER                  |
| 521 | 178 | Oak Creek #7 | 000* | 170 | D1 | 5/20/1984 | 5:32  | 5/23/1984 | 7:30  | 73.96  | 1410 | FD FAN MOTOR                        |
| 521 | 178 | Oak Creek #7 | 000* | 180 | D1 | 5/23/1984 | 7:30  | 5/23/1984 | 12:50 | 5.33   | 1410 | FD FAN MOTOR                        |
| 521 | 178 | Oak Creek #7 | 000* | 255 | D1 | 5/23/1984 | 12:50 | 5/23/1984 | 17:00 | 4.16   | 290  | PULV RED CAPACITY DUE TO WEAR       |
| 521 | 178 | Oak Creek #7 | 000* | 255 | D1 | 5/25/1984 | 13:00 | 5/26/1984 | 0:55  | 11.91  | 9270 | WET COAL                            |
| 521 | 178 | Oak Creek #7 | 000* | 255 | D1 | 5/26/1984 | 13:45 | 5/26/1984 | 14:10 | 0.41   | 290  | PULV REDUCED CAPACITY               |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 5/31/1984 | 16:30 | 6/3/1984  | 11:05 | 66.58  | 1080 | ECONOMIZER LEAK                     |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 6/3/1984  | 11:05 | 6/3/1984  | 15:50 | 4.75   | 4301 | LOSS OF VOLTAGE TO MAIN STOP VV     |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 6/6/1984  | 12:00 | 6/6/1984  | 22:00 | 10     | 9290 | OTHER FUEL QUALITY PROBLEMS         |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 6/8/1984  | 22:10 | 6/9/1984  | 0:30  | 2.33   | 340  | PULVERIZER PROBLEMS                 |
| 521 | 178 | Oak Creek #7 | 000* | 245 | D1 | 6/18/1984 | 13:00 | 6/18/1984 | 19:50 | 6.83   | 9290 | OTHER FUEL QUALITY PROBLEMS         |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 6/19/1984 | 10:05 | 6/20/1984 | 9:50  | 23.75  | 9290 | OTHER FUEL QUAL PROBLEMS            |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 6/22/1984 | 9:35  | 6/22/1984 | 14:15 | 4.66   | 9290 | OTHER FUEL QUALITY PROBLEMS         |

|     |     |              |      |     |    |            |       |            |       |        |      |                               |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|-------------------------------|
| 521 | 178 | Oak Creek #7 | 000* | 256 | D1 | 6/25/1984  | 8:45  | 6/25/1984  | 11:00 | 2.25   | 9620 | PARTICULATE STACK EMISSIONS   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 7/3/1984   | 11:26 | 7/8/1984   | 2:38  | 111.2  | 1070 | SECOND REHEATER               |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 7/9/1984   | 13:10 | 7/11/1984  | 11:40 | 46.5   | 1005 | GENERATING TUBE               |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 7/12/1984  | 11:33 | 7/13/1984  | 2:45  | 15.2   | 9290 | OTHER FUEL QUALITY PROBLEMS   |
| 521 | 178 | Oak Creek #7 | 000* | 255 | D1 | 7/13/1984  | 11:22 | 7/14/1984  | 1:00  | 13.63  | 1999 | UNKNOWN                       |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 7/14/1984  | 9:38  | 7/14/1984  | 10:41 | 1.04   | 9270 | WET COAL                      |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 7/14/1984  | 10:41 | 7/14/1984  | 11:21 | 0.66   | 9900 | OPERATOR ERROR                |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 7/14/1984  | 11:21 | 7/14/1984  | 23:30 | 12.15  | 9270 | WET COAL                      |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 7/16/1984  | 9:43  | 7/16/1984  | 10:34 | 0.85   | 250  | PULVERIZER FDRS               |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 7/16/1984  | 12:28 | 7/17/1984  | 7:42  | 19.23  | 250  | PULVERIZER FDRS               |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 7/17/1984  | 7:42  | 7/17/1984  | 9:48  | 2.09   | 250  | PULVERIZER FDRS               |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 7/22/1984  | 20:00 | 7/24/1984  | 1:30  | 29.5   | 290  | PULV REDUCED CAP DUE TO WEAR  |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 7/25/1984  | 1:00  | 7/25/1984  | 13:28 | 12.46  | 290  | PULV REDUCED CAP DUE TO WEAR  |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 7/25/1984  | 13:28 | 7/26/1984  | 8:15  | 18.78  | 250  | PULVERIZER FEEDERS            |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 7/26/1984  | 8:15  | 7/27/1984  | 1:30  | 17.25  | 3280 | HIGH CIRC WATER TEMP          |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 7/30/1984  | 13:25 | 7/31/1984  | 14:05 | 24.66  | 3211 | CIRC WATER PUMP MOTOR         |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 8/1/1984   | 11:20 | 8/2/1984   | 1:30  | 14.16  | 250  | PULVERIZER FEEDERS            |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 8/2/1984   | 11:30 | 8/3/1984   | 1:45  | 14.25  | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 178 | Oak Creek #7 | 000* | 262 | D1 | 8/3/1984   | 10:30 | 8/3/1984   | 22:10 | 11.66  | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 8/3/1984   | 22:10 | 8/3/1984   | 23:50 | 1.66   | 330  | 75 MILL COAL LEAK             |
| 521 | 178 | Oak Creek #7 | 000* | 187 | D1 | 8/4/1984   | 18:05 | 8/4/1984   | 21:15 | 3.16   | 250  | PULVERIZER FEEDERS            |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 8/5/1984   | 6:40  | 8/5/1984   | 11:55 | 5.25   | 250  | PULVERIZER FEEDERS            |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 8/6/1984   | 7:00  | 8/6/1984   | 8:00  | 1      | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 178 | Oak Creek #7 | 000* | 120 | D1 | 8/8/1984   | 8:41  | 8/8/1984   | 9:30  | 0.81   | 1480 | OTHER ID FAN PROBLEMS         |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 8/8/1984   | 12:37 | 8/8/1984   | 13:30 | 0.88   | 9270 | WET COAL                      |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 8/9/1984   | 17:50 | 8/12/1984  | 1:30  | 55.66  | 1480 | OTHER ID FAN PROBLEMS         |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 8/12/1984  | 1:30  | 8/12/1984  | 10:15 | 8.75   | 310  | MILL PROBLEM                  |
| 521 | 178 | Oak Creek #7 | 000* | 120 | D1 | 8/12/1984  | 10:15 | 8/12/1984  | 14:15 | 4      | 250  | PULVERIZER FEEDERS            |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 8/12/1984  | 14:15 | 8/12/1984  | 23:40 | 9.41   | 250  | MILL PROBLEMS                 |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 8/12/1984  | 23:40 | 8/16/1984  | 19:00 | 91.33  | 1480 | OTHER ID FAN PROBLEMS         |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 8/16/1984  | 19:00 | 8/19/1984  | 23:45 | 76.75  | 3440 | HI PRESS HTR TUBE LEAKS       |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 8/19/1984  | 23:45 | 8/20/1984  | 23:00 | 23.25  | 1480 | OTHER ID FAN PROBLEMS         |
| 521 | 178 | Oak Creek #7 | 000* | 180 | D1 | 8/20/1984  | 23:00 | 8/21/1984  | 8:15  | 9.25   | 1060 | FIRST REHEATER                |
| 521 | 178 | Oak Creek #7 | 000* | 105 | D1 | 8/21/1984  | 8:15  | 8/21/1984  | 17:11 | 8.93   | 1060 | FIRST REHEATER                |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/23/1984  | 17:11 | 8/27/1984  | 20:15 | 99.06  | 1060 | FIRST REHEATER                |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/27/1984  | 20:15 | 8/27/1984  | 22:15 | 2      | 9910 | MAINTENANCE ERROR             |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/27/1984  | 22:15 | 8/28/1984  | 5:57  | 7.7    | 1060 | FIRST REHEATER                |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 8/28/1984  | 5:57  | 8/29/1984  | 3:00  | 21.05  | 1850 | BOILER WATER CONDITION        |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 8/29/1984  | 3:00  | 8/30/1984  | 10:25 | 31.41  | 1480 | OTHER ID FAN PROBLEMS         |
| 521 | 178 | Oak Creek #7 | 000* | 212 | D1 | 8/30/1984  | 10:25 | 8/31/1984  | 1:30  | 15.08  | 9270 | WET COAL                      |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 8/31/1984  | 1:30  | 8/31/1984  | 16:00 | 14.5   | 1480 | OTHER ID FAN PROBLEMS         |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 8/31/1984  | 20:14 | 8/31/1984  | 21:36 | 1.36   | 1800 | TEST                          |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 9/1/1984   | 3:47  | 10/26/1984 | 22:05 | 1338.3 | 1800 | BOILER OVERHAUL               |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 10/27/1984 | 2:40  | 10/28/1984 | 3:53  | 25.21  | 1799 | OTHER CONTROL PROBLEMS        |
| 521 | 178 | Oak Creek #7 | 000* | 175 | D1 | 10/28/1984 | 3:53  | 10/29/1984 | 21:04 | 41.18  | 1850 | BOILER WATER CONDITION        |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 10/29/1984 | 21:04 | 10/30/1984 | 5:50  | 8.76   | 8560 | ELECTROSTATIC PRECIP PROBLEMS |

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|     |     |              |      |     |    |            |       |            |       |       |      |                               |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|-------|------|-------------------------------|
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 10/30/1984 | 5:50  | 10/30/1984 | 12:26 | 6.6   | 1440 | AIR SUPPLY DAMPERS            |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 10/30/1984 | 12:26 | 10/31/1984 | 2:00  | 13.56 | 1850 | BOILER WATER CONDITION        |
| 521 | 178 | Oak Creek #7 | 000* | 208 | D1 | 10/31/1984 | 2:00  | 10/31/1984 | 14:00 | 12    | 1850 | BOILER WATER CONDITION        |
| 521 | 178 | Oak Creek #7 | 000* | 223 | D1 | 10/31/1984 | 14:00 | 11/1/1984  | 4:20  | 14.33 | 1850 | BOILER WATER CONDITION        |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 11/2/1984  | 2:30  | 11/2/1984  | 10:30 | 8     | 290  | PULVERIZER-REDUCED CAPACITY   |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 11/2/1984  | 10:30 | 11/2/1984  | 17:00 | 6.5   | 350  | PULVERIZED FUEL & AIR PIPING  |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 11/3/1984  | 15:04 | 11/3/1984  | 23:15 | 8.18  | 1710 | BOILER CONTROLS               |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 11/3/1984  | 23:16 | 11/4/1984  | 10:56 | 11.66 | 3431 | OTHER FEEDWATER VALVES        |
| 521 | 178 | Oak Creek #7 | 000* | 170 | D1 | 11/4/1984  | 10:56 | 11/5/1984  | 1:10  | 14.23 | 3431 | OTHER FEEDWATER VALVES        |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 11/5/1984  | 8:15  | 11/6/1984  | 3:30  | 19.25 | 250  | PULVERIZER FEEDERS            |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D3 | 11/6/1984  | 11:25 | 11/6/1984  | 11:45 | 0.33  | 1400 | FORCED DRAFT FAN              |
| 521 | 178 | Oak Creek #7 | 000* | 195 | D1 | 11/7/1984  | 17:50 | 11/7/1984  | 19:30 | 1.66  | 9270 | WET COAL                      |
| 521 | 178 | Oak Creek #7 | 000* | 255 | D1 | 11/7/1984  | 19:30 | 11/8/1984  | 5:10  | 9.66  | 9270 | WET COAL                      |
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 11/8/1984  | 8:17  | 11/8/1984  | 13:00 | 4.71  | 310  | PULVERIZER MILLS              |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 11/8/1984  | 13:00 | 11/8/1984  | 23:15 | 10.25 | 310  | PULVERIZER MILLS              |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 11/9/1984  | 7:10  | 11/9/1984  | 10:30 | 3.33  | 270  | PRI AIR DUCTS & DAMPERS       |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 11/9/1984  | 10:30 | 11/9/1984  | 20:00 | 9.5   | 290  | PULVERIZER-REDUCED CAPACITY   |
| 521 | 178 | Oak Creek #7 | 000* | 155 | D1 | 11/12/1984 | 0:40  | 11/12/1984 | 2:45  | 2.08  | 1470 | INDUCED DRAFT FANS            |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 11/12/1984 | 6:08  | 11/13/1984 | 4:30  | 22.36 | 9270 | WET COAL                      |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 11/13/1984 | 4:30  | 11/13/1984 | 6:30  | 2     | 9620 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 11/13/1984 | 6:30  | 11/14/1984 | 3:58  | 21.46 | 1710 | COMBUSTION CONTROLS FSSS      |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 11/14/1984 | 3:58  | 11/15/1984 | 17:00 | 37.03 | 3420 | FEEDWATER PIPING              |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D3 | 11/18/1984 | 7:00  | 11/18/1984 | 11:25 | 4.41  | 340  | ADJUST MILL ROLLERS           |
| 521 | 178 | Oak Creek #7 | 000* | 255 | D1 | 11/18/1984 | 15:10 | 11/18/1984 | 21:45 | 6.58  | 9270 | WET COAL                      |
| 521 | 178 | Oak Creek #7 | 000* | 180 | D1 | 11/18/1984 | 21:45 | 11/19/1984 | 5:05  | 7.33  | 310  | PULVERIZER MILLS              |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 11/21/1984 | 4:38  | 11/21/1984 | 6:12  | 1.56  | 3149 | LOSS OF VACUUM                |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 11/21/1984 | 17:35 | 11/25/1984 | 17:58 | 96.38 | 1440 | AIR SUPPLY DAMPERS            |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 11/28/1984 | 7:45  | 11/28/1984 | 23:00 | 15.25 | 9270 | WET COAL                      |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 11/29/1984 | 16:30 | 11/29/1984 | 18:30 | 2     | 9270 | WET COAL                      |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 11/30/1984 | 11:00 | 12/1/1984  | 1:15  | 38.25 | 9270 | WET COAL                      |
| 521 | 178 | Oak Creek #7 | 000* | 262 | D1 | 12/5/1984  | 16:23 | 12/5/1984  | 23:00 | 6.61  | 310  | PULVERIZER MILLS              |
| 521 | 178 | Oak Creek #7 | 000* | 262 | D1 | 12/6/1984  | 12:30 | 12/9/1984  | 2:45  | 62.25 | 310  | PULVERIZER MILLS              |
| 521 | 178 | Oak Creek #7 | 000* | 170 | D1 | 12/9/1984  | 2:45  | 12/9/1984  | 21:30 | 18.75 | 310  | PULVERIZER MILLS              |
| 521 | 178 | Oak Creek #7 | 000* | 253 | D1 | 12/11/1984 | 10:25 | 12/11/1984 | 19:49 | 9.39  | 310  | PULVERIZER MILLS              |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 12/11/1984 | 19:49 | 12/14/1984 | 3:44  | 55.91 | 1050 | SECOND SUPERHEATER            |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 12/16/1984 | 16:20 | 12/16/1984 | 22:00 | 5.66  | 310  | PULVERIZER MILLS              |
| 521 | 178 | Oak Creek #7 | 000* | 170 | D1 | 12/18/1984 | 18:00 | 12/18/1984 | 23:30 | 5.5   | 310  | PULVERIZER MILLS              |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 12/20/1984 | 12:58 | 12/24/1984 | 2:49  | 85.85 | 1005 | GENERATING TUBE               |
| 521 | 178 | Oak Creek #7 | 000* | 170 | D1 | 1/2/1985   | 4:00  | 1/2/1985   | 13:12 | 9.2   | 310  | PULVERIZER MILL               |
| 521 | 178 | Oak Creek #7 | 000* | 170 | D1 | 1/5/1985   | 8:00  | 1/5/1985   | 12:38 | 4.63  | 310  | PULVERIZER MILL               |
| 521 | 178 | Oak Creek #7 | 000* | 170 | D1 | 1/6/1985   | 8:30  | 1/7/1985   | 1:00  | 16.5  | 350  | PULVERIZED FUEL & AIR PIPING  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 1/14/1985  | 9:07  | 1/15/1985  | 10:00 | 24.88 | 1005 | GENERATING TUBE               |
| 521 | 178 | Oak Creek #7 |      |     | SF | 1/15/1985  | 10:00 | 1/15/1985  | 11:32 | 1.53  | 380  | LIGHT-OFF SYSTEMS             |
| 521 | 178 | Oak Creek #7 | 000* | 170 | D2 | 1/20/1985  | 5:50  | 1/20/1985  | 10:00 | 4.16  | 310  | PULVERIZER MILLS              |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D2 | 1/22/1985  | 15:00 | 1/23/1985  | 1:00  | 10    | 310  | PULVERIZER MILLS              |
| 521 | 178 | Oak Creek #7 | 000* | 248 | D1 | 1/28/1985  | 15:02 | 1/28/1985  | 16:20 | 1.3   | 310  | PULVERIZER MILLS              |

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|     |     |              |      |     |    |            |       |            |       |        |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---------------------------------|
| 521 | 178 | Oak Creek #7 |      |     | U1 | 2/3/1985   | 19:24 | 2/3/1985   | 20:08 | 0.73   | 1710 | FSSS POWER SUPPLY               |
| 521 | 178 | Oak Creek #7 | 000* | 145 | D3 | 2/9/1985   | 22:34 | 2/10/1985  | 5:35  | 7.01   | 3420 | 73 FEEDWATER PUMP               |
| 521 | 178 | Oak Creek #7 | 000* | 259 | D1 | 2/18/1985  | 9:35  | 2/18/1985  | 14:40 | 5.08   | 9630 | OPACITY MONITOR MALFUNCTION     |
| 521 | 178 | Oak Creek #7 | 000* | 230 | D1 | 2/19/1985  | 6:30  | 2/19/1985  | 9:00  | 2.5    | 9630 | OPACITY FOS. STM UNIT           |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/7/1985   | 0:02  | 3/7/1985   | 0:51  | 0.81   | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/8/1985   | 13:02 | 3/10/1985  | 22:53 | 57.85  | 1005 | GENERATING TUBE                 |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/24/1985  | 13:08 | 3/25/1985  | 7:51  | 18.71  | 1005 | GENERATING TUBE                 |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 3/30/1985  | 10:05 | 3/31/1985  | 3:30  | 17.41  | 880  | FLYASH HANDLING                 |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 4/2/1985   | 11:23 | 4/4/1985   | 7:15  | 43.86  | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 |      |     | MO | 4/11/1985  | 20:25 | 4/12/1985  | 8:00  | 11.58  | 9620 | PRECIPITATOR GROUNDS            |
| 521 | 178 | Oak Creek #7 |      |     | SF | 4/12/1985  | 8:00  | 4/12/1985  | 9:26  | 1.43   | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | 000* | 180 | PD | 4/13/1985  | 7:30  | 4/13/1985  | 17:00 | 9.5    | 310  | PULVERIZER MILLS                |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 4/19/1985  | 23:09 | 4/21/1985  | 9:50  | 34.68  | 1005 | GENERATING TUBE                 |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 4/22/1985  | 16:00 | 4/22/1985  | 21:42 | 5.7    | 1005 | GENERATING TUBE                 |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 4/22/1985  | 21:42 | 4/24/1985  | 8:50  | 35.13  | 1005 | GENERATING TUBE                 |
| 521 | 178 | Oak Creek #7 |      |     | SF | 4/24/1985  | 8:50  | 4/24/1985  | 16:22 | 7.53   | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | 000* | 183 | PD | 5/5/1985   | 9:00  | 5/5/1985   | 14:15 | 5.25   | 310  | PULVERIZER MILLS                |
| 521 | 178 | Oak Creek #7 | 000* | 180 | PD | 5/18/1985  | 4:32  | 5/18/1985  | 23:15 | 18.71  | 250  | MILL FEEDER PROBLEM             |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 5/22/1985  | 9:15  | 5/25/1985  | 0:22  | 63.11  | 9620 | PRECIPITATOR GROUNDS            |
| 521 | 178 | Oak Creek #7 |      |     | MO | 5/25/1985  | 0:22  | 5/25/1985  | 8:23  | 8.01   | 9620 | PRECIPITATOR GROUNDS            |
| 521 | 178 | Oak Creek #7 | 000* | 190 | PD | 5/25/1985  | 12:55 | 5/25/1985  | 17:00 | 4.08   | 310  | PULVERIZER MILLS                |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 5/26/1985  | 20:10 | 5/27/1985  | 13:42 | 17.53  | 310  | PULVERIZER MILLS                |
| 521 | 178 | Oak Creek #7 |      |     | MO | 5/31/1985  | 19:09 | 6/3/1985   | 5:05  | 57.93  | 1060 | FIRST REHEATER-REPAIR TUBE LEAK |
| 521 | 178 | Oak Creek #7 |      |     | SF | 6/3/1985   | 5:05  | 6/3/1985   | 9:30  | 4.41   | 4609 | EXCITER PROBLEMS                |
| 521 | 178 | Oak Creek #7 |      |     | MO | 6/13/1985  | 22:59 | 6/18/1985  | 4:16  | 101.28 | 1050 | SECOND SUPERHEATER              |
| 521 | 178 | Oak Creek #7 | 000* | 261 | D1 | 6/26/1985  | 18:00 | 6/26/1985  | 18:30 | 0.5    | 3440 | HIGH PRESSURE HEATER            |
| 521 | 178 | Oak Creek #7 | 000* | 249 | D1 | 7/19/1985  | 9:20  | 7/19/1985  | 11:12 | 1.86   | 9620 | PARTICULATE STACK EMISSIONS     |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 8/7/1985   | 11:11 | 8/10/1985  | 14:50 | 75.65  | 1070 | SECOND REHEATER                 |
| 521 | 178 | Oak Creek #7 | 000* | 140 | PD | 8/17/1985  | 6:00  | 8/19/1985  | 0:30  | 42.5   | 1480 | OTHER ID FAN PROBLEMS           |
| 521 | 178 | Oak Creek #7 | 000* | 230 | D1 | 8/29/1985  | 16:00 | 8/30/1985  | 0:30  | 8.5    | 3440 | HI PRESS HTR TUBE LEAK          |
| 521 | 178 | Oak Creek #7 | 000* | 269 | D1 | 8/31/1985  | 12:20 | 8/31/1985  | 16:00 | 3.66   | 310  | PULVERIZER MILLS                |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 9/3/1985   | 3:08  | 9/3/1985   | 11:02 | 7.9    | 3149 | LOSS OF VACUUM                  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 9/5/1985   | 22:03 | 9/8/1985   | 17:29 | 67.43  | 1005 | GENERATING TUBE                 |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 9/11/1985  | 19:30 | 9/12/1985  | 21:30 | 26     | 1070 | SECOND REHEATER                 |
| 521 | 178 | Oak Creek #7 |      |     | MO | 9/12/1985  | 21:30 | 9/15/1985  | 1:22  | 51.86  | 1070 | SECOND REHEATER                 |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 9/18/1985  | 10:15 | 9/18/1985  | 11:05 | 0.83   | 310  | PULVERIZER MILLS                |
| 521 | 178 | Oak Creek #7 | 000* | 145 | D1 | 9/26/1985  | 14:22 | 9/27/1985  | 3:40  | 13.3   | 3411 | BOILER FEED PUMP #73            |
| 521 | 178 | Oak Creek #7 | 000* | 170 | D1 | 10/1/1985  | 19:50 | 10/2/1985  | 1:30  | 5.66   | 330  | PULVERIZER COAL LEAK            |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 10/2/1985  | 7:10  | 10/2/1985  | 13:00 | 5.83   | 290  | PULVERIZER REDUCED CAPACITY     |
| 521 | 178 | Oak Creek #7 |      |     | MO | 10/3/1985  | 15:34 | 10/7/1985  | 3:37  | 84.05  | 1060 | FIRST REHEATER                  |
| 521 | 178 | Oak Creek #7 | 000* | 249 | D1 | 10/9/1985  | 7:55  | 10/9/1985  | 23:00 | 15.08  | 310  | PULVERIZER MILLS                |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 10/16/1985 | 7:40  | 10/16/1985 | 17:00 | 9.33   | 9270 | WET COAL                        |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 10/16/1985 | 19:35 | 10/20/1985 | 4:00  | 80.41  | 1070 | SECOND REHEATER                 |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 10/20/1985 | 4:00  | 10/20/1985 | 8:00  | 4      | 360  | BURNER TILTS INOPERATIVE        |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 10/20/1985 | 8:00  | 10/20/1985 | 16:46 | 8.76   | 380  | IGNITER PROBLEMS                |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 10/22/1985 | 1:00  | 10/22/1985 | 16:00 | 15     | 330  | PULVERIZER COAL LEAK            |

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|     |     |              |      |     |    |            |       |            |       |       |      |                               |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|-------|------|-------------------------------|
| 521 | 178 | Oak Creek #7 | 000* | 138 | D1 | 10/23/1985 | 1:30  | 10/23/1985 | 3:00  | 1.5   | 1400 | CHANGE OIL 72 FD FAN BRG      |
| 521 | 178 | Oak Creek #7 |      |     | MO | 10/26/1985 | 4:35  | 10/27/1985 | 1:45  | 21.16 | 4014 | BUCKET & BLADE FOULING        |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 10/28/1985 | 12:45 | 10/28/1985 | 16:00 | 3.25  | 330  | PULVERIZER COAL LEAK          |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 10/28/1985 | 18:50 | 10/29/1985 | 4:45  | 9.91  | 250  | MILL FEEDER PROBLEMS          |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 11/1/1985  | 2:42  | 11/1/1985  | 3:22  | 0.66  | 9270 | UNIT TRIP WET COAL            |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 11/1/1985  | 5:20  | 11/1/1985  | 5:50  | 0.5   | 9270 | UNIT TRIP WET COAL            |
| 521 | 178 | Oak Creek #7 | 000* | 185 | D1 | 11/1/1985  | 7:50  | 11/1/1985  | 12:00 | 4.16  | 310  | PULVERIZER CONTROL PROBLEMS   |
| 521 | 178 | Oak Creek #7 |      |     | PO | 11/1/1985  | 15:35 | 12/9/1985  | 19:41 | 940.1 | 1800 | ANNUAL OUTAGE                 |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 12/10/1985 | 3:05  | 12/10/1985 | 3:32  | 0.45  | 9900 | ID FAN TRIPPED                |
| 521 | 178 | Oak Creek #7 | 000* | 118 | D1 | 12/10/1985 | 16:45 | 12/10/1985 | 20:03 | 3.3   | 1455 | #72 ID FAN - BALANCING        |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 12/10/1985 | 20:03 | 12/12/1985 | 10:06 | 38.05 | 880  | FLYASH HANDLING EQUIPMENT     |
| 521 | 178 | Oak Creek #7 | 000* | 222 | D1 | 12/13/1985 | 7:00  | 12/13/1985 | 19:30 | 12.5  | 1850 | BOILER WATER CONDITION        |
| 521 | 178 | Oak Creek #7 |      |     | MO | 12/14/1985 | 1:28  | 12/15/1985 | 4:57  | 27.48 | 1005 | GENERATING TUBE               |
| 521 | 178 | Oak Creek #7 | 000* | 245 | D1 | 12/16/1985 | 1:00  | 12/16/1985 | 19:26 | 18.43 | 1850 | BLR WATER CONDITION           |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 12/16/1985 | 19:26 | 12/16/1985 | 22:00 | 2.56  | 1850 | BOILER WATER CONDITONS        |
| 521 | 178 | Oak Creek #7 | 000* | 120 | D1 | 12/16/1985 | 23:28 | 12/17/1985 | 1:50  | 2.36  | 3416 | OTHER FEEDWATER PUMP PROBLEMS |
| 521 | 178 | Oak Creek #7 | 000* | 110 | D1 | 12/21/1985 | 5:30  | 12/22/1985 | 13:03 | 31.55 | 880  | FLYASH SYSTEM                 |
| 521 | 178 | Oak Creek #7 | 000* | 255 | D1 | 12/28/1985 | 9:53  | 12/29/1985 | 1:19  | 15.43 | 340  | OTHER PULVERIZER PROBLEMS     |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 12/29/1985 | 1:19  | 12/30/1985 | 17:38 | 40.31 | 1005 | GENERATING TUBE               |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 1/2/1986   | 7:30  | 1/3/1986   | 21:58 | 38.46 | 290  | PULVERIZER REDUCED CAPACITY.  |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 1/3/1986   | 21:58 | 1/6/1986   | 4:48  | 54.83 | 1050 | SECOND SUPERHEATER.           |
| 521 | 178 | Oak Creek #7 |      |     | NC | 1/8/1986   | 9:35  | 1/11/1986  | 8:14  | 70.65 | 290  | PULVERIZER-REDUCED CAPACITY   |
| 521 | 178 | Oak Creek #7 |      |     | MO | 1/11/1986  | 8:14  | 1/11/1986  | 9:13  | 0.98  | 4302 | TURBINE TRIP DEVICES          |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 1/12/1986  | 19 45 | 1/13/1986  | 5:00  | 9.25  | 3411 | FEEDWATER PUMP MOTOR          |
| 521 | 178 | Oak Creek #7 | 000* | 110 | D1 | 1/13/1986  | 5 00  | 1/14/1986  | 5:00  | 24    | 880  | FLYASH SYTEM PROBLEMS         |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 1/14/1986  | 5 00  | 1/16/1986  | 20:13 | 63.21 | 3411 | FEEDWATER PUMP MOTOR          |
| 521 | 178 | Oak Creek #7 |      |     | U3 | 1/16/1986  | 20:13 | 1/19/1986  | 2:06  | 53.88 | 1005 | GENERATING TUBE               |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 2/4/1986   | 12 30 | 2/4/1986   | 20:00 | 7.5   | 250  | PULVERIZER FEEDERS            |
| 521 | 178 | Oak Creek #7 | 000* | 190 | D1 | 2/4/1986   | 15:15 | 2/4/1986   | 17:00 | 1.75  | 250  | PULVERIZER FEEDERS            |
| 521 | 178 | Oak Creek #7 | 000* | 110 | D1 | 2/5/1986   | 14:30 | 2/5/1986   | 20:15 | 5.75  | 1060 | FIRST REHEATER                |
| 521 | 178 | Oak Creek #7 |      |     | U2 | 2/5/1986   | 20:15 | 2/9/1986   | 3:17  | 79.03 | 1060 | FIRST REHEATER                |
| 521 | 178 | Oak Creek #7 |      |     | MO | 2/24/1986  | 22:23 | 2/27/1986  | 6:50  | 56.45 | 1050 | SECOND SUPERHEATER            |
| 521 | 178 | Oak Creek #7 |      |     | SF | 2/27/1986  | 6:50  | 2/27/1986  | 16:10 | 9.33  | 4300 | TURBINE SUPERVISORY SYSTEM    |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/8/1986   | 21:04 | 3/11/1986  | 9:59  | 60.91 | 1005 | GENERATING TUBE               |
| 521 | 178 | Oak Creek #7 | 000* | 175 | D1 | 3/12/1986  | 2:00  | 3/12/1986  | 9:07  | 7.11  | 880  | FLYASH HANDLING PROBLEMS      |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/12/1986  | 22:21 | 3/16/1986  | 1:12  | 74.85 | 1080 | ECONOMIZER TUBE LEAK          |
| 521 | 178 | Oak Creek #7 | 000* | 230 | D1 | 3/19/1986  | 16:15 | 3/19/1986  | 21:10 | 4.91  | 1105 | GENERATING TUBE LEAK          |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/19/1986  | 21:10 | 3/20/1986  | 17:11 | 20.01 | 1105 | GENERATING TUBE LEAK          |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 3/22/1986  | 7:30  | 3/22/1986  | 22:20 | 14.83 | 9270 | WET COAL                      |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/27/1986  | 9:27  | 3/30/1986  | 5:46  | 68.31 | 1005 | GENERATING TUBE LEAK          |
| 521 | 178 | Oak Creek #7 |      |     | SF | 3/30/1986  | 5:46  | 3/30/1986  | 12:08 | 6.36  | 9900 | OPERATOR ERROR                |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 4/4/1986   | 21:40 | 4/7/1986   | 1:18  | 51.63 | 1070 | SECOND REHEATER TUBE LEAK     |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 4/24/1986  | 18:54 | 4/25/1986  | 18:08 | 23.23 | 4840 | INSPECTION-GENERATOR GROUND   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 5/2/1986   | 9:01  | 5/4/1986   | 21:35 | 60.56 | 1070 | SECOND REHEATER               |
| 521 | 178 | Oak Creek #7 | 000* | 140 | D1 | 5/5/1986   | 10:20 | 5/5/1986   | 13:05 | 2.75  | 3410 | FEEDWATER PUMP                |



|     |     |              |      |     |    |           |       |            |          |         |      |                                 |
|-----|-----|--------------|------|-----|----|-----------|-------|------------|----------|---------|------|---------------------------------|
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 5/5/1986  | 13:05 | 5/5/1986   | 19:30    | 6.41    | 600  | DESUPERHEATER/ATTEMPERATOR      |
| 521 | 178 | Oak Creek #7 | 000* | 275 | D1 | 5/5/1986  | 19:30 | 5/7/1986   | 2:00     | 30.5    | 3501 | 76 HEATER DRAIN PUMP            |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 5/9/1986  | 23:49 | 5/12/1986  | 4:25     | 52.6    | 1050 | SECOND SUPERHEATER              |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 6/19/1986 | 15:30 | 6/19/1986  | 22:10    | 6.66    | 3310 | HOTWELL LEVEL HIGH              |
| 521 | 178 | Oak Creek #7 | 000* | 111 | D1 | 6/19/1986 | 22:10 | 6/20/1986  | 10:25    | 12.25   | 1070 | REHEAT LEAK                     |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 6/20/1986 | 10:25 | 6/22/1986  | 22:25    | 60      | 1070 | REHEAT LEAK                     |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 6/22/1986 | 22:25 | 6/25/1986  | 7:45     | 57.33   | 600  | DESUPERHEATER SPRAY NOZZLES     |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 6/25/1986 | 7:46  | 6/29/1986  | 16:00    | 104.23  | 1005 | GENERATING TUBE                 |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 7/10/1986 | 20:02 | 7/12/1986  | 12:51    | 40.81   | 1005 | GENERATING TUBE                 |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 7/15/1986 | 14:15 | 7/15/1986  | 14:57    | 0.7     | 9910 | MAINT ERROR-ELECT SWITCHING     |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 7/23/1986 | 16:54 | 7/25/1986  | 21:58    | 53.06   | 1070 | SECOND REHEAT LEAK              |
| 521 | 178 | Oak Creek #7 | 000* | 245 | D1 | 7/28/1986 | 15:15 | 7/29/1986  | 4:35     | 13.33   | 9270 | WET COAL                        |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 7/29/1986 | 4:35  | 8/2/1986   | 22:57    | 114.36  | 1050 | SECOND SUPERHEATER              |
| 521 | 178 | Oak Creek #7 | 000* | 230 | D1 | 8/6/1986  | 22:00 | 8/7/1986   | 18:34    | 20.56   | 4261 | BROKEN STEM 4 CNTL VLV          |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 8/7/1986  | 18:34 | 8/12/1986  | 2:57     | 104.38  | 4261 | REPAIR CONTROL VALVE            |
| 521 | 178 | Oak Creek #7 | 000* | 165 | D1 | 8/18/1986 | 3:00  | 8/18/1986  | 18:18    | 15.3    | 1850 | BOILER WATER CONDITION          |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 8/18/1986 | 18:18 | 8/19/1986  | 1:54     | 7.6     | 3110 | CONDENSER TUBE LEAKS            |
| 521 | 178 | Oak Creek #7 | 000* | 225 | D1 | 8/20/1986 | 7:00  | 8/20/1986  | 16:26    | 9.43    | 1850 | BOILER WATER CONDITION-SILICA   |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 8/20/1986 | 16:26 | 8/22/1986  | 4:53     | 36.45   | 3110 | CONDENSER TUBE LEAKS            |
| 521 | 178 | Oak Creek #7 | 000* | 185 | PD | 8/22/1986 | 21:50 | 8/23/1986  | 5:00     | 7.16    | 1850 | BLR WATER CONDITION SILICA      |
| 521 | 178 | Oak Creek #7 | 000* | 155 | D1 | 8/23/1986 | 5:00  | 8/24/1986  | 18:45    | 37.75   | 1420 | OTHER FD FAN PROBLEMS           |
| 521 | 178 | Oak Creek #7 | 000* | 230 | PD | 8/24/1986 | 18:45 | 8/28/1986  | 22:30    | 99.75   | 1850 | BLR WATER CONDITION SILICA      |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 8/28/1986 | 22:47 | 9/1/1986   | 22:10    | 95.38   | 1005 | GENERATING TUBE LEAK            |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 9/6/1986  | 9:05  | 9/7/1986   | 2:30     | 17.41   | 310  | PULVERIZER MILLS                |
| 521 | 178 | Oak Creek #7 | 000* | 180 | D1 | 9/7/1986  | 2:30  | 9/7/1986   | 12:00    | 9.5     | 310  | PULVERIZER MILLS                |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 9/8/1986  | 21:30 | 9/9/1986   | 6:00     | 8.5     | 310  | PULVERIZER MILLS                |
| 521 | 178 | Oak Creek #7 | 000* | 230 | D1 | 9/16/1986 | 17:00 | 9/24/1986  | 2:00     | 177     | 9250 | LOW BTU COAL                    |
| 521 | 178 | Oak Creek #7 | 000* | 230 | D1 | 9/24/1986 | 2:00  | 10/3/1986  | 5:05     | 219.08  | 1050 | SECOND SUPERHEATER              |
| 521 | 178 | Oak Creek #7 | *    | 155 | D1 | 10/3/1986 | 5:05  | 10/3/1986  | 14:50    | 9.75    | 1420 | OTHER FD FAN PROBLEMS           |
|     |     |              |      |     |    |           |       |            |          |         |      | ANNUAL OUTAGE. OUTAGE           |
| 521 | 178 | Oak Creek #7 |      |     | PO | 10/3/1986 | 21:26 | 12/31/1986 | 24:00:00 | 2162.56 | 1800 | CONTINUES INTO 1987.            |
| 521 | 178 | Oak Creek #7 |      |     | PO | 1/1/1987  | 0:01  | 1/5/1987   | 20:00    | 115.98  | 1800 | ANNUAL OUTAGE. STARTED 10/3/86. |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 1/6/1987  | 0:55  | 1/6/1987   | 3:08     | 2.21    | 4099 | OTHER HI PRESS TURB PROBLEMS    |
| 521 | 178 | Oak Creek #7 |      |     | MO | 1/6/1987  | 21:00 | 1/7/1987   | 14:54    | 17.9    | 8560 | ELECTROSTATIC PRECIP PROBLEM    |
| 521 | 178 | Oak Creek #7 | 000* | 225 | D1 | 1/9/1987  | 1:15  | 1/11/1987  | 5:57     | 52.7    | 1850 | BOILER WATER CONDITION          |
| 521 | 178 | Oak Creek #7 |      |     | MO | 1/11/1987 | 5:57  | 1/11/1987  | 19:01    | 13.06   | 1480 | OTHER ID FAN PROBLEMS           |
| 521 | 178 | Oak Creek #7 | 000* | 160 | D1 | 1/13/1987 | 9:15  | 1/14/1987  | 13:55    | 28.66   | 1400 | 71 FD FAN VIBRATION             |
| 521 | 178 | Oak Creek #7 |      |     | NC | 1/24/1987 | 5:40  | 1/24/1987  | 17:30    | 11.83   | 1400 | 71 FD FAN VIBRATION             |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 1/26/1987 | 17:12 | 1/27/1987  | 5:53     | 12.68   | 8560 | ELECTROSTATIC PRECIP PROBLEM    |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 1/27/1987 | 5:53  | 1/27/1987  | 16:00    | 10.11   | 8560 | ELECTROSTATIC PRECIP PROBLEM    |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 1/27/1987 | 16:00 | 1/27/1987  | 20:41    | 4.68    | 1799 | BLR CONTROLS                    |
| 521 | 178 | Oak Creek #7 |      |     | NC | 1/31/1987 | 5:30  | 1/31/1987  | 16:25    | 10.91   | 1420 | OTHER FD FAN PROBLEMS           |
| 521 | 178 | Oak Creek #7 |      |     | MO | 2/3/1987  | 21:59 | 2/4/1987   | 16:17    | 18.29   | 1005 | GENERATING TUBE                 |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 2/9/1987  | 9:25  | 2/9/1987   | 10:18    | 0.88    | 1710 | COMBUSTION-STEAM CONTROL        |
| 521 | 178 | Oak Creek #7 |      |     | MO | 2/13/1987 | 22:43 | 2/15/1987  | 0:10     | 25.45   | 1005 | GENERATING TUBE                 |
| 521 | 178 | Oak Creek #7 |      |     | RS | 2/15/1987 | 0:10  | 2/15/1987  | 9:40     | 9.5     | 0    | Reserve Shutdown                |

WEPCO 40101

|     |     |              |      |     |    |            |       |            |          |         |      |                                |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|---------|------|--------------------------------|
| 521 | 178 | Oak Creek #7 | 000* | 280 | D1 | 3/1/1987   | 17:20 | 3/2/1987   | 7:30     | 14.16   | 1005 | GENERATING TUBE                |
| 521 | 178 | Oak Creek #7 |      |     | MO | 3/2/1987   | 23:44 | 3/5/1987   | 1:00     | 49.26   | 1005 | GENERATING TUBE                |
| 521 | 178 | Oak Creek #7 |      |     | SF | 3/5/1987   | 1:00  | 3/5/1987   | 12:43    | 11.71   | 1710 | BOILER CONTROL                 |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 3/9/1987   | 7:05  | 3/9/1987   | 8:22     | 1.28    | 1799 | BLR CONTROLS-FSSS              |
| 521 | 178 | Oak Creek #7 |      |     | MO | 3/26/1987  | 4:04  | 3/31/1987  | 2:00     | 117.93  | 4264 | COMBINED INTERCEPT VLVS        |
| 521 | 178 | Oak Creek #7 | *    |     | SE | 3/31/1987  | 2:00  | 4/2/1987   | 1:48     | 47.8    | 1420 | OTHER FD FAN PROBLEMS          |
| 521 | 178 | Oak Creek #7 | 000* | 160 | D1 | 4/2/1987   | 1:48  | 4/2/1987   | 13:21    | 11.55   | 1420 | OTHER FD FAN PROBLEMS          |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 4/2/1987   | 13:21 | 4/4/1987   | 9:03     | 43.7    | 1050 | SECOND SUPERHEATER             |
| 521 | 178 | Oak Creek #7 | 000* | 160 | D1 | 4/4/1987   | 15:00 | 4/5/1987   | 1:00     | 10      | 1420 | 71 FD FAN PROBLEM              |
| 521 | 178 | Oak Creek #7 |      |     | NC | 4/5/1987   | 1:00  | 4/5/1987   | 13:50    | 12.83   | 1420 | 71 FD FAN PROBLEM              |
| 521 | 178 | Oak Creek #7 | 000* | 235 | D1 | 4/23/1987  | 10:35 | 4/24/1987  | 2:00     | 15.41   | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 5/7/1987   | 18:20 | 5/7/1987   | 23:20    | 5       | 250  | PULVERIZER FDR                 |
| 521 | 178 | Oak Creek #7 | *    |     | NC | 5/7/1987   | 23:20 | 5/8/1987   | 0:30     | 1.16    | 250  | PULVERIZER FDR                 |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 5/18/1987  | 4:55  | 5/20/1987  | 22:27    | 65.53   | 1005 | GENERATING TUBE                |
| 521 | 178 | Oak Creek #7 |      |     | NC | 5/27/1987  | 23:30 | 5/28/1987  | 5:30     | 6       | 250  | PUL FDR 74 BELT REPL-71 MILLOV |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 6/23/1987  | 10:00 | 6/23/1987  | 21:43    | 11.71   | 8560 | PRECIP PROBLEM FIELD GROUNDS-2 |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 6/23/1987  | 21:43 | 6/24/1987  | 8:16     | 10.55   | 8560 | PRECIP PROBLEM FIELD GROUNDS   |
| 521 | 178 | Oak Creek #7 | 000* | 225 | D1 | 7/24/1987  | 20:10 | 7/25/1987  | 2:36     | 6.43    | 8560 | ELECTROSTATIC PRECIP PROBLEM   |
| 521 | 178 | Oak Creek #7 | 000* | 110 | D1 | 7/30/1987  | 8:00  | 7/30/1987  | 13:00    | 5       | 880  | FLYASH TERTIARY COLLECTOR PROB |
| 521 | 178 | Oak Creek #7 | 000* | 245 | D1 | 8/6/1987   | 9:52  | 8/6/1987   | 13:15    | 3.38    | 8550 | PRECIPITATOR FOULING           |
| 521 | 178 | Oak Creek #7 | 000* | 230 | D1 | 8/14/1987  | 11:35 | 8/14/1987  | 24:00:00 | 12.41   | 9270 | WET COAL                       |
| 521 | 178 | Oak Creek #7 | 000* | 230 | D1 | 8/15/1987  | 10:15 | 8/15/1987  | 14:00    | 3.75    | 9270 | WET COAL                       |
| 521 | 178 | Oak Creek #7 | 000* | 262 | D1 | 8/17/1987  | 8:00  | 8/17/1987  | 9:25     | 1.41    | 8550 | PRECIP FOULING                 |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 8/20/1987  | 20:29 | 8/21/1987  | 5:58     | 9.48    | 8560 | PRECIP FIELDS OUT              |
| 521 | 178 | Oak Creek #7 |      |     | MO | 10/12/1987 | 12:19 | 10/13/1987 | 7:30     | 19.18   | 540  | RPL REHEAT HDR FLANGE GASKET   |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 10/29/1987 | 7:08  | 10/29/1987 | 7:28     | 0.33    | 338  | 75 MILL INTERLOCK BYPASSED     |
| 521 | 178 | Oak Creek #7 |      |     | NC | 11/4/1987  | 0:16  | 11/4/1987  | 4:20     | 4.06    | 3320 | #71 HOTWELL PUMP               |
| 521 | 178 | Oak Creek #7 |      |     | PO | 11/6/1987  | 21:19 | 12/27/1987 | 18:32    | 1245.21 | 1800 | ANNUAL OUTAGE                  |
| 521 | 178 | Oak Creek #7 |      |     | U2 | 12/28/1987 | 13:34 | 12/29/1987 | 2:00     | 12.43   | 3149 | LOSS OF VACUUM                 |
| 521 | 178 | Oak Creek #7 |      |     | U2 | 12/29/1987 | 2:01  | 12/29/1987 | 18:50    | 16.81   | 8560 | PRECIPITATOR GROUND            |
| 521 | 178 | Oak Creek #7 |      |     | MO | 12/30/1987 | 12:56 | 12/30/1987 | 14:05    | 1.15    | 4460 | TURB OVERSPEED TRIP TESTS      |
| 521 | 178 | Oak Creek #7 | 000* | 140 | D1 | 12/31/1987 | 18:00 | 12/31/1987 | 23:59    | 5.98    | 1400 | FORCE DRAFT 71                 |
| 521 | 178 | Oak Creek #7 | 000* | 140 | D1 | 1/1/1988   | 0:01  | 1/2/1988   | 19:54    | 43.88   | 1400 | FORCED DRAFT 71                |
| 521 | 178 | Oak Creek #7 |      |     | MO | 1/20/1988  | 0:19  | 1/24/1988  | 14:02    | 109.71  | 4260 | REMOVE STEAM STRAINERS         |
| 521 | 178 | Oak Creek #7 | 000* | 160 | D1 | 1/25/1988  | 15:00 | 1/28/1988  | 8:30     | 65.5    | 1400 | FORCED DRAFT FAN - 71          |
| 521 | 178 | Oak Creek #7 |      |     | RS | 1/29/1988  | 21:37 | 1/31/1988  | 23:44    | 50.11   | 0    | Reserve Shutdown               |
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 2/9/1988   | 2:05  | 2/9/1988   | 7:14     | 5.15    | 250  | PULVERIZER FEEDERS             |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 2/11/1988  | 23:40 | 2/12/1988  | 1:55     | 2.25    | 340  | PULVERIZER PROBLEM             |
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 2/21/1988  | 2:00  | 2/22/1988  | 5:25     | 27.41   | 340  | OTHER PULVERIZER PROBLEMS      |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D2 | 2/23/1988  | 14:00 | 2/25/1988  | 11:15    | 45.25   | 8560 | PRECIPITATOR GROUND            |
| 521 | 178 | Oak Creek #7 |      |     | RS | 2/26/1988  | 21:19 | 2/28/1988  | 20:23    | 47.06   | 0    | Reserve Shutdown               |
| 521 | 178 | Oak Creek #7 |      |     | NC | 3/1/1988   | 12:00 | 3/1/1988   | 15:55    | 3.91    | 340  | PULVERIZER PROBLEM             |
| 521 | 178 | Oak Creek #7 |      |     | RS | 3/4/1988   | 21:47 | 3/6/1988   | 19:28    | 45.68   | 0    | Reserve Shutdown               |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 3/11/1988  | 18:42 | 3/11/1988  | 22:00    | 3.3     | 3501 | 76 HEATER DRAIN PUMP           |
| 521 | 178 | Oak Creek #7 | 000* | 195 | D1 | 3/16/1988  | 20:40 | 3/17/1988  | 0:10     | 3.5     | 380  | IGNITOR MICROPROCESSOR FAILURE |

|     |     |              |      |     |    |            |       |            |          |        |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|--------|------|--|
| 521 | 178 | Oak Creek #7 | 000* | 195 | D1 | 3/17/1988  | 0:10  | 3/17/1988  | 5:30     | 5.33   | 340  | PULVERIZER PROBLEM   |
| 521 | 178 | Oak Creek #7 |      |     | RS | 3/25/1988  | 21:45 | 3/27/1988  | 20:35    | 46.83  | 0    | Reserve Shutdown   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 4/23/1988  | 2:38  | 4/23/1988  | 3:15     | 0.61   | 770  | OTHER BLR RECIRC PROBLEMS  |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 5/2/1988   | 2:40  | 5/3/1988   | 20:23    | 41.71  | 1060 | FIRST REHEATER   |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 5/12/1988  | 17:00 | 5/12/1988  | 18:20    | 1.33   | 3410 | #73 BOILER FEED PUMP   |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 5/21/1988  | 1:28  | 5/21/1988  | 21:30    | 20.03  | 540  | REHEAT STEAM PIPING  |
| 521 | 178 | Oak Creek #7 | *    |     | SF | 5/21/1988  | 21:30 | 5/22/1988  | 11:00    | 13.5   | 8560 | ELECTROSTATIC PRECIP PROB.   |
| 521 | 178 | Oak Creek #7 | 000* | 242 | D1 | 5/24/1988  | 10:15 | 5/24/1988  | 12:00    | 1.75   | 8560 | ELECTROSTATIC PRECIP PROB.   |
| 521 | 178 | Oak Creek #7 | 000* | 205 | PD | 6/4/1988   | 2:30  | 6/4/1988   | 17:52    | 15.36  | 340  | OTHER PULV PROBLEMS  |
| 521 | 178 | Oak Creek #7 | 000* | 270 | D1 | 6/14/1988  | 11:40 | 6/15/1988  | 2:00     | 14.33  | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 6/17/1988  | 19:20 | 6/18/1988  | 10:00    | 14.66  | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 6/18/1988  | 10:00 | 6/19/1988  | 6:51     | 20.85  | 0    | Reserve Shutdown   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 6/19/1988  | 23:13 | 6/20/1988  | 8:27     | 9.23   | 4430 | LAND SEAL SYS REGULAR  |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 6/21/1988  | 12:40 | 6/21/1988  | 22:00    | 9.33   | 3620 | MAIN TRANSFORMER   |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 6/29/1988  | 15:00 | 6/29/1988  | 19:30    | 4.5    | 250  | TRAIN 74 FEEDER BELT   |
| 521 | 178 | Oak Creek #7 |      |     | RS | 7/1/1988   | 23:20 | 7/4/1988   | 19:01    | 67.68  | 0    | Reserve Shutdown   |
| 521 | 178 | Oak Creek #7 |      |     | MO | 7/5/1988   | 4:20  | 7/5/1988   | 11:32    | 7.2    | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 178 | Oak Creek #7 |      |     | MO | 7/22/1988  | 22:28 | 7/23/1988  | 16:35    | 18.11  | 880  | FLYASH GROUNDED PRECIP   |
| 521 | 178 | Oak Creek #7 |      |     | MO | 7/24/1988  | 11:36 | 7/24/1988  | 21:25    | 9.81   | 8560 | PRECIP WIRE PROBLEM  |
| 521 | 178 | Oak Creek #7 | *    | 265 | D1 | 8/11/1988  | 23:00 | 8/13/1988  | 3:16     | 28.26  | 3431 | FW HTR SAFETY VALVES   |
| 521 | 178 | Oak Creek #7 |      |     | MO | 8/13/1988  | 3:16  | 8/13/1988  | 10:19    | 7.05   | 3431 | FDWTR HTR SAFETY VLVS  |
| 521 | 178 | Oak Creek #7 | *    | 150 | D1 | 8/22/1988  | 5:05  | 8/22/1988  | 13:00    | 7.91   | 1420 | OTHER FD FAN PROBLEMS  |
| 521 | 178 | Oak Creek #7 |      |     | NC | 8/27/1988  | 3:00  | 8/27/1988  | 8:19     | 5.31   | 250  | PULVERIZER FEEDER  |
| 521 | 178 | Oak Creek #7 |      |     | RS | 9/1/1988   | 22:00 | 9/11/1988  | 19:23    | 237.38 | 0    | Reserve Shutdown   |
| 521 | 178 | Oak Creek #7 |      |     | MO | 9/14/1988  | 23:48 | 9/15/1988  | 6:06     | 6.3    | 8560 | ELECTROSTATIC PRECIP PROBLEM   |
| 521 | 178 | Oak Creek #7 |      |     | U1 | 9/15/1988  | 11:25 | 9/17/1988  | 11:30    | 48.08  | 1005 | GENERATING TUBE  |
| 521 | 178 | Oak Creek #7 |      |     | SF | 9/17/1988  | 11:30 | 9/18/1988  | 3:12     | 15.7   | 895  | ASH PIT TROUBLE  |
| 521 | 178 | Oak Creek #7 | *    | 235 | D1 | 9/19/1988  | 10:12 | 9/19/1988  | 22:00    | 11.8   | 8560 | ELECTROSTATIC PRECIP PROBLEM   |
| 521 | 178 | Oak Creek #7 | *    | 260 | D1 | 9/26/1988  | 13:09 | 9/26/1988  | 21:00    | 7.85   | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 10/1/1988  | 9:40  | 10/1/1988  | 19:53    | 10.21  | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 178 | Oak Creek #7 |      |     | NC | 10/1/1988  | 19:54 | 10/2/1988  | 3:02     | 7.13   | 8560 | PRECIPITATOR FIELD OUT   |
| 521 | 178 | Oak Creek #7 | 000* | 195 | D1 | 10/11/1988 | 9:25  | 10/11/1988 | 13:10    | 3.75   | 250  | PULVERIZER FEEDER  |
| 521 | 178 | Oak Creek #7 | 000* | 180 | D1 | 10/20/1988 | 3:15  | 10/20/1988 | 9:45     | 6.5    | 250  | PULVERIZER FEEDER  |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 10/29/1988 | 0:19  | 10/31/1988 | 7:30     | 55.18  | 0    | Reserve Shutdown   |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 10/31/1988 | 7:30  | 12/17/1988 | 14:30    | 1159   | 4400 | ANNUAL OUTAGE  |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 12/20/1988 | 15:09 | 12/20/1988 | 15:20    | 0.18   | 1457 | 72 ID FAN LUBE SYS   |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 12/21/1988 | 21:21 | 12/22/1988 | 5:45     | 8.39   | 1430 | FD FAN SUCTION DUCTWORK  |
| 521 | 178 | Oak Creek #7 | *    |     | SF | 12/22/1988 | 5:45  | 12/22/1988 | 10:21    | 4.6    | 1799 | BOILER CONTROLS  |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 12/22/1988 | 13:14 | 12/22/1988 | 20:44    | 7.5    | 1799 | BOILER CONTROLS  |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 12/24/1988 | 4:07  | 12/25/1988 | 10:33    | 30.43  | 4250 | BALANCE LOW SPEED TURB ROTOR   |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 12/29/1988 | 20:01 | 12/29/1988 | 22:09    | 2.13   | 4460 | TURB OVERSPEED TRIP TESTS  |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 12/29/1988 | 22:38 | 12/31/1988 | 24:00:00 | 49.36  | 4260 | REMOVE STEAM STRAINERS<br>REMOVE STEAM STRAINERS<br>(STARTED 12/29/88 22:38) |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 1/1/1989   | 0:01  | 1/3/1989   | 9:27     | 57.43  | 4260 |  |
| 521 | 178 | Oak Creek #7 | *    | 210 | D1 | 1/6/1989   | 4:00  | 1/6/1989   | 21:06    | 17.1   | 740  | BOILER BOOSTER PUMP MTR BRG  |

|     |     |              |   |     |    |            |       |            |       |        |      |   |
|-----|-----|--------------|---|-----|----|------------|-------|------------|-------|--------|------|---|
| 521 | 178 | Oak Creek #7 | * |     | MO | 1/6/1989   | 21:06 | 1/8/1989   | 11:07 | 38.01  | 740  | BLR BOOSTER PUMP REPLACEMENT              |
| 521 | 178 | Oak Creek #7 | * |     | U2 | 1/11/1989  | 8:00  | 1/12/1989  | 9:38  | 25.63  | 1005 | GENERATING TUBE                           |
| 521 | 178 | Oak Creek #7 | * |     | U1 | 1/20/1989  | 22:50 | 1/21/1989  | 1:59  | 3.15   | 1799 | BOILER CONTROLS                           |
| 521 | 178 | Oak Creek #7 | * |     | RS | 1/27/1989  | 22:34 | 1/29/1989  | 19:26 | 44.86  | 0    | Reserve Shutdown                          |
| 521 | 178 | Oak Creek #7 | * |     | NC | 2/3/1989   | 3:00  | 2/6/1989   | 12:00 | 81     | 740  | BLR BOOSTER PMP REPLACEMENT               |
| 521 | 178 | Oak Creek #7 | * |     | U1 | 2/7/1989   | 6:46  | 2/7/1989   | 9:08  | 2.36   | 4700 | GENERATOR VOLTAGE CONTROL                 |
| 521 | 178 | Oak Creek #7 | * |     | U1 | 2/9/1989   | 4:36  | 2/9/1989   | 5:18  | 0.7    | 1710 | BLR COMBUSTION CONTROLS                   |
| 521 | 178 | Oak Creek #7 | * |     | RS | 3/24/1989  | 23:19 | 3/26/1989  | 23:59 | 48.66  | 0    | Reserve Shutdown                          |
| 521 | 178 | Oak Creek #7 | * |     | NC | 4/5/1989   | 6:30  | 4/5/1989   | 7:10  | 0.66   | 340  | REPLACE PYRITE SCRAPPER                   |
| 521 | 178 | Oak Creek #7 | * | 200 | D1 | 4/10/1989  | 11:45 | 4/10/1989  | 12:05 | 0.33   | 250  | PULVERIZER FEEDER                         |
| 521 | 178 | Oak Creek #7 | * |     | U2 | 4/12/1989  | 9:19  | 4/15/1989  | 1:54  | 64.58  | 1050 | SECOND SUPERHEATER                        |
| 521 | 178 | Oak Creek #7 | * |     | RS | 4/15/1989  | 1:54  | 4/16/1989  | 17:44 | 39.83  | 0    | Reserve Shutdown                          |
| 521 | 178 | Oak Creek #7 | * | 245 | D1 | 4/27/1989  | 9:05  | 4/27/1989  | 12:30 | 3.41   | 3310 | HOTWELL PUMP                              |
| 521 | 178 | Oak Creek #7 | * | 150 | D1 | 4/27/1989  | 12:30 | 5/4/1989   | 21:00 | 176.5  | 3310 | HOTWELL PUMP                              |
| 521 | 178 | Oak Creek #7 | * |     | RS | 4/28/1989  | 19:11 | 4/30/1989  | 23:58 | 52.78  | 0    | Reserve Shutdown                          |
| 521 | 178 | Oak Creek #7 | * | 205 | D1 | 5/11/1989  | 3:10  | 5/12/1989  | 21:45 | 42.58  | 740  | BOILER BOOSTER PUMP                       |
| 521 | 178 | Oak Creek #7 | * |     | MO | 5/12/1989  | 21:45 | 5/14/1989  | 13:27 | 39.7   | 760  | 73 BBP MTR FAILURE                        |
| 521 | 178 | Oak Creek #7 | * | 205 | D1 | 5/15/1989  | 10:40 | 5/15/1989  | 18:37 | 7.95   | 1850 | HIGH BOILER SILICA                        |
| 521 | 178 | Oak Creek #7 | * | 235 | D1 | 6/6/1989   | 9:21  | 6/6/1989   | 13:00 | 3.65   | 8560 | PRECIPITATOR PROBLEM                      |
| 521 | 178 | Oak Creek #7 | * | 230 | D1 | 6/12/1989  | 12:11 | 6/14/1989  | 14:30 | 50.31  | 310  | PULVERIZER MILLS                          |
| 521 | 178 | Oak Creek #7 | * | 235 | D1 | 6/27/1989  | 12:00 | 6/27/1989  | 14:45 | 2.75   | 8560 | PRECIPITATOR PROBLEM                      |
| 521 | 178 | Oak Creek #7 | * | 240 | D1 | 7/6/1989   | 10:24 | 7/6/1989   | 13:10 | 2.76   | 250  | PULVERIZER FEEDER                         |
| 521 | 178 | Oak Creek #7 | * |     | NC | 7/23/1989  | 13:30 | 7/23/1989  | 14:55 | 1.41   | 310  | PULVERIZER MILL                           |
| 521 | 178 | Oak Creek #7 | * |     | RS | 8/7/1989   | 12:01 | 8/13/1989  | 19:44 | 151.71 | 0    | Reserve Shutdown                          |
| 521 | 178 | Oak Creek #7 | * |     | RS | 8/19/1989  | 2:08  | 8/21/1989  | 7:00  | 52.86  | 0    | Reserve Shutdown                          |
| 521 | 178 | Oak Creek #7 | * |     | MO | 8/21/1989  | 7:00  | 8/22/1989  | 1:46  | 18.76  | 500  | MAIN STEAM PIPING                         |
| 521 | 178 | Oak Creek #7 | * |     | RS | 8/25/1989  | 23:50 | 8/27/1989  | 17:11 | 41.35  | 0    | Reserve Shutdown                          |
| 521 | 178 | Oak Creek #7 | * |     | NC | 9/2/1989   | 9:23  | 9/2/1989   | 10:18 | 0.91   | 4620 | AIR COOLING SYSTEM                        |
| 521 | 178 | Oak Creek #7 | * | 125 | D1 | 9/21/1989  | 18:41 | 9/22/1989  | 1:25  | 6.73   | 4110 | 72 FD FAN MOTOR FAILURE                   |
| 521 | 178 | Oak Creek #7 | * |     | RS | 10/13/1989 | 22:12 | 10/15/1989 | 19:56 | 45.73  | 0    | Reserve Shutdown                          |
| 521 | 178 | Oak Creek #7 | * | 200 | D1 | 10/16/1989 | 9:00  | 10/16/1989 | 11:10 | 2.16   | 3415 | FDWTR PMP/DRIVE LUBE OIL 282000<br>000000 |
| 521 | 178 | Oak Creek #7 | * |     | U1 | 10/21/1989 | 19:13 | 10/21/1989 | 22:00 | 2.78   | 9900 | OPERATOR ERROR 000000<br>000000           |
| 521 | 178 | Oak Creek #7 | * |     | RS | 10/21/1989 | 22:00 | 10/22/1989 | 6:33  | 8.55   | 0    | Reserve Shutdown                          |
| 521 | 178 | Oak Creek #7 | * | 130 | PD | 12/9/1989  | 5:30  | 12/9/1989  | 18:30 | 13     | 3416 | 73 FDWTR PMP THRUST BRG A414230<br>000000 |
| 521 | 178 | Oak Creek #7 | * |     | RS | 12/16/1989 | 3:03  | 12/17/1989 | 0:19  | 21.26  | 0    | Reserve Shutdown                          |
| 521 | 178 | Oak Creek #7 | * |     | RS | 1/5/1990   | 23:28 | 1/7/1990   | 19:37 | 44.15  | 0    | Reserve Shutdown                          |
| 521 | 178 | Oak Creek #7 | * |     | RS | 1/13/1990  | 20:30 | 1/13/1990  | 22:22 | 1.86   | 0    | Reserve Shutdown                          |
| 521 | 178 | Oak Creek #7 | * | 200 | D1 | 5/3/1990   | 3:30  | 5/3/1990   | 7:40  | 4.16   | 310  | PULVERIZER MILLS                          |
| 521 | 178 | Oak Creek #7 | * |     | PO | 5/8/1990   | 1:17  | 6/8/1990   | 20:55 | 763.63 | 1800 | PLANNED MAINTENANCE OUTAGE                |
| 521 | 178 | Oak Creek #7 | * | 265 | D1 | 6/12/1990  | 13:15 | 6/12/1990  | 14:00 | 0.75   | 8560 | PRECIPITATOR PROBLEMS                     |
| 521 | 178 | Oak Creek #7 | * |     | NC | 6/30/1990  | 0:30  | 7/1/1990   | 21:46 | 45.26  | 740  | #73 BLR BOOSTER PMP                       |
| 521 | 178 | Oak Creek #7 | * |     | U1 | 7/1/1990   | 23:13 | 7/2/1990   | 0:04  | 0.85   | 9900 | OPERATOR ERROR                            |
| 521 | 178 | Oak Creek #7 | * | 265 | D1 | 7/10/1990  | 11:00 | 7/10/1990  | 18:20 | 7.33   | 3310 | CONDENSATE/HOTWELL PUMPS                  |

|     |     |              |      |     |    |            |       |            |       |        |      |                                  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|----------------------------------|
| 521 | 178 | Oak Creek #7 | *    |     | RS | 7/11/1990  | 7:57  | 7/15/1990  | 13:53 | 101.93 | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 9/21/1990  | 23:52 | 9/23/1990  | 23:22 | 47.5   | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | *    | 170 | D1 | 9/24/1990  | 7:00  | 9/24/1990  | 9:35  | 2.58   | 4800 | GENERATOR MAIN LEADS             |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 10/1/1990  | 22:15 | 10/2/1990  | 0:23  | 2.13   | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | 000* | 130 | D1 | 10/9/1990  | 8:00  | 10/9/1990  | 10:30 | 2.5    | 3112 | CONDENSER TUBE FOULING           |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 10/26/1990 | 22:08 | 10/28/1990 | 21:22 | 47.23  | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 10/28/1990 | 21:22 | 10/30/1990 | 9:30  | 36.13  | 1410 | 72 FD FAN MOTOR FAILURE          |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 11/3/1990  | 1:04  | 11/4/1990  | 11:54 | 34.83  | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 11/13/1990 | 0:51  | 11/13/1990 | 1:59  | 1.13   | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 11/30/1990 | 23:28 | 12/2/1990  | 16:38 | 65.16  | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 12/4/1990  | 18:36 | 12/4/1990  | 20:06 | 1.5    | 3112 | CONDENSER TUBE FOULING TUBE SIDE |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 12/12/1990 | 23:51 | 12/13/1990 | 7:00  | 7.15   | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | *    |     | SF | 12/13/1990 | 7:00  | 12/13/1990 | 10:44 | 3.73   | 1799 | OTHER CONTROL PROBLEMS           |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 12/18/1990 | 13:16 | 12/18/1990 | 14:09 | 0.88   | 1799 | OTHER CONTROL PROBLEMS           |
| 521 | 178 | Oak Creek #7 | *    | 200 | D1 | 1/2/1991   | 12:00 | 1/2/1991   | 13:15 | 1.25   | 320  | 74 MILL FOREIGN OBJECT IN MILL   |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 1/11/1991  | 22:33 | 1/12/1991  | 5:30  | 6.95   | 3110 | CONDENSER TUBE LEAK              |
| 521 | 178 | Oak Creek #7 | *    |     | SF | 1/12/1991  | 5:30  | 1/13/1991  | 4:38  | 23.13  | 4261 | CONTROL VALVES                   |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 3/1/1991   | 23:35 | 3/4/1991   | 1:52  | 50.28  | 1510 | FLUE GAS DUCT                    |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 3/23/1991  | 0:24  | 3/24/1991  | 1:41  | 25.28  | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | *    | 260 | D1 | 3/26/1991  | 8:16  | 3/26/1991  | 22:16 | 14     | 8560 | ELECTROSTATIC PRECIP PROBLEMS    |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 3/26/1991  | 22:16 | 3/27/1991  | 5:48  | 7.53   | 8560 | ELECTROSTATIC PRECIP PROBLEMS    |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 4/13/1991  | 23:40 | 4/14/1991  | 8:57  | 9.28   | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 5/2/1991   | 23:58 | 5/5/1991   | 21:54 | 69.93  | 1510 | FLUE GAS DUCT                    |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 5/17/1991  | 21:42 | 5/20/1991  | 4:06  | 54.4   | 1005 | GENERATING TUBE LEAK             |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 6/8/1991   | 11:17 | 6/10/1991  | 22:46 | 59.48  | 1080 | ECONOMIZER LEAK                  |
| 521 | 178 | Oak Creek #7 | 000* | 140 | D1 | 7/8/1991   | 8:15  | 7/8/1991   | 11:40 | 3.41   | 1400 | FD FAN                           |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 7/23/1991  | 23:25 | 7/29/1991  | 8:15  | 128.83 | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 7/31/1991  | 5:24  | 7/31/1991  | 7:35  | 2.18   | 1750 | BURNER MANAGEMENT SYSTEM         |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 7/31/1991  | 7:35  | 7/31/1991  | 22:17 | 14.7   | 1850 | BOILER WATER CONDITION           |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 7/31/1991  | 22:17 | 7/31/1991  | 22:43 | 0.43   | 1750 | BURNER MANAGEMENT SYSTEM         |
| 521 | 178 | Oak Creek #7 | 000* | 135 | D1 | 8/15/1991  | 5:50  | 8/15/1991  | 8:50  | 3      | 265  | PRIMARY AIR HEATER               |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/19/1991  | 7:41  | 8/19/1991  | 8:23  | 0.7    | 1750 | BURNER MANAGEMENT SYSTEM         |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/19/1991  | 21:45 | 8/19/1991  | 22:26 | 0.68   | 9900 | OPERATOR ERROR                   |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 9/12/1991  | 17:34 | 9/15/1991  | 5:41  | 60.11  | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 9/20/1991  | 23:57 | 9/21/1991  | 10:56 | 10.98  | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | 000* | 140 | D1 | 10/2/1991  | 14:30 | 10/2/1991  | 18:00 | 3.5    | 1407 | 71 FD FAN LUB SYSTEM             |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 10/7/1991  | 14:02 | 10/12/1991 | 23:31 | 129.48 | 1040 | FIRST SUPERHEATER LEAK           |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 10/18/1991 | 23:04 | 10/20/1991 | 17:31 | 42.45  | 1040 | SUPERHEATER LEAK                 |
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 11/13/1991 | 10:02 | 11/15/1991 | 6:45  | 44.71  | 741  | BLR RECIRCULATION PUMP MTR       |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 12/6/1991  | 23:53 | 12/8/1991  | 14:09 | 38.26  | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 1/10/1992  | 11:55 | 1/12/1992  | 15:17 | 51.36  | 0    | Reserve Shutdown                 |
| 521 | 178 | Oak Creek #7 | 000* | 244 | D1 | 1/20/1992  | 17:15 | 1/20/1992  | 20:00 | 2.75   | 8560 | ELECTROSTATIC PRECIP PROBLEMS    |
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 2/4/1992   | 8:00  | 2/5/1992   | 8:25  | 24.41  | 740  | #72 BOILER BOOSTER PUMP          |
| 521 | 178 | Oak Creek #7 | 000* | 120 | D1 | 2/5/1992   | 8:25  | 2/5/1992   | 11:15 | 2.83   | 760  | #72 BLR BSTR PMP DISCHARGE VLV   |
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 2/5/1992   | 11:15 | 2/6/1992   | 10:00 | 22.75  | 740  | #72 BOILER BOOSTER PUMP          |

|     |     |              |      |     |    |            |       |            |       |         |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|---------|------|---------------------------------|
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 2/6/1992   | 10:00 | 2/7/1992   | 17:07 | 31.11   | 740  | #72 BOILER BOOSTER PUMP         |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 2/7/1992   | 17:07 | 2/9/1992   | 23:59 | 54.86   | 0    | Reserve Shutdown                |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 2/10/1992  | 0:01  | 5/23/1992  | 14:36 | 2462.58 | 1800 | PLANNED OUTAGE                  |
| 521 | 178 | Oak Creek #7 | 000* | 45  | PD | 5/23/1992  | 14:36 | 5/23/1992  | 16:45 | 2.15    | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 5/23/1992  | 16:45 | 5/23/1992  | 17:29 | 0.73    | 1800 | PLANNED OUTAGE                  |
| 521 | 178 | Oak Creek #7 | 000* | 45  | PD | 5/23/1992  | 17:29 | 5/23/1992  | 22:02 | 4.55    | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 5/23/1992  | 22:02 | 5/26/1992  | 8:37  | 58.58   | 1800 | PLANNED OUTAGE                  |
| 521 | 178 | Oak Creek #7 | 000* | 77  | PD | 5/26/1992  | 8:37  | 5/26/1992  | 12:00 | 3.38    | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 5/26/1992  | 12:00 | 5/26/1992  | 12:28 | 0.46    | 1800 | PLANNED OUTAGE                  |
| 521 | 178 | Oak Creek #7 | 000* | 70  | PD | 5/26/1992  | 12:28 | 5/26/1992  | 12:47 | 0.31    | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 5/26/1992  | 12:47 | 5/26/1992  | 13:02 | 0.25    | 1800 | PLANNED OUTAGE                  |
| 521 | 178 | Oak Creek #7 | 000* | 60  | PD | 5/26/1992  | 13:02 | 5/26/1992  | 13:32 | 0.5     | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 5/26/1992  | 13:32 | 5/26/1992  | 13:41 | 0.15    | 1800 | PLANNED OUTAGE                  |
| 521 | 178 | Oak Creek #7 | 000* | 30  | PD | 5/26/1992  | 13:41 | 5/26/1992  | 13:57 | 0.26    | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 5/26/1992  | 13:57 | 5/26/1992  | 14:05 | 0.13    | 1800 | PLANNED OUTAGE                  |
| 521 | 178 | Oak Creek #7 | 000* | 41  | PD | 5/26/1992  | 14:05 | 5/26/1992  | 14:49 | 0.73    | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 5/26/1992  | 14:49 | 5/26/1992  | 15:26 | 0.61    | 1800 | PLANNED OUTAGE                  |
| 521 | 178 | Oak Creek #7 | 000* | 146 | PD | 5/26/1992  | 15:26 | 5/27/1992  | 9:42  | 18.26   | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 5/27/1992  | 9:42  | 5/27/1992  | 10:15 | 0.55    | 1800 | PLANNED OUTAGE                  |
| 521 | 178 | Oak Creek #7 | 000* | 250 | PD | 5/27/1992  | 10:15 | 5/29/1992  | 8:10  | 45.91   | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 5/29/1992  | 8:10  | 5/29/1992  | 9:40  | 1.5     | 1800 | PLANNED OUTAGE                  |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 5/31/1992  | 3:34  | 5/31/1992  | 4:34  | 1       | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 6/2/1992   | 20:50 | 6/3/1992   | 3:26  | 6.6     | 4309 | OTHER TURB INST & CTRL PROBLEMS |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 6/6/1992   | 1:34  | 6/9/1992   | 11:54 | 82.33   | 0    | Reserve Shutdown                |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 6/10/1992  | 12:00 | 6/22/1992  | 11:23 | 287.38  | 1050 | SECOND SUPERHEATER LEAK         |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 6/26/1992  | 19:06 | 6/26/1992  | 20:18 | 1.2     | 1700 | FEEDWATER CONTROLS              |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 6/30/1992  | 22:33 | 7/1/1992   | 6:30  | 7.95    | 0    | Reserve Shutdown                |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 7/10/1992  | 21:36 | 7/13/1992  | 10:50 | 61.23   | 0    | Reserve Shutdown                |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 7/13/1992  | 16:06 | 7/13/1992  | 16:57 | 0.85    | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 7/13/1992  | 18:37 | 7/13/1992  | 19:19 | 0.7     | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 7/17/1992  | 18:35 | 7/18/1992  | 3:15  | 8.66    | 3414 | FEEDWATER PUMP CONTROLS         |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 7/22/1992  | 9:26  | 7/22/1992  | 10:08 | 0.7     | 9910 | MAINTENANCE ERROR               |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 7/24/1992  | 23:01 | 8/3/1992   | 2:30  | 219.48  | 0    | Reserve Shutdown                |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/25/1992  | 14:55 | 8/25/1992  | 16:03 | 1.13    | 3415 | FDWTR PMP/DRIVE LUBE OIL SYS    |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 8/26/1992  | 19:36 | 9/3/1992   | 15:44 | 188.13  | 0    | Reserve Shutdown                |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 9/11/1992  | 18:56 | 9/16/1992  | 13:10 | 114.23  | 0    | Reserve Shutdown                |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 9/16/1992  | 13:10 | 9/22/1992  | 22:36 | 153.43  | 410  | OTHER BURNER PROBLEMS           |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 9/23/1992  | 3:55  | 9/23/1992  | 4:40  | 0.75    | 1750 | BURNER MANAGEMENT PROBLEMS      |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 10/9/1992  | 23:24 | 10/11/1992 | 17:08 | 41.73   | 0    | Reserve Shutdown                |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 10/16/1992 | 19:28 | 10/16/1992 | 23:23 | 3.91    | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 10/18/1992 | 2:00  | 10/18/1992 | 3:11  | 1.18    | 1799 | OTHER BOILER CONTROL PROBLEMS   |
| 521 | 178 | Oak Creek #7 | 000* | 180 | D1 | 10/31/1992 | 16:30 | 11/1/1992  | 6:39  | 14.15   | 310  | PULVERIZER MILLS                |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 11/1/1992  | 6:39  | 11/1/1992  | 7:31  | 0.86    | 1710 | COMBUSTION CONTROLS             |
| 521 | 178 | Oak Creek #7 | 000* | 254 | D1 | 11/2/1992  | 8:05  | 11/2/1992  | 9:15  | 1.16    | 1799 | OTHER BLR CONTROL PROBLEMS      |
| 521 | 178 | Oak Creek #7 | 000* | 180 | D1 | 11/2/1992  | 19:30 | 11/3/1992  | 5:50  | 10.33   | 310  | PULVERIZER MILLS                |
| 521 | 178 | Oak Creek #7 | 000* | 175 | D1 | 11/4/1992  | 18:35 | 11/9/1992  | 3:00  | 104.41  | 1420 | OTHER FD FAN PROBLEMS           |

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|     |     |              |      |     |    |            |       |            |       |        |      |                              |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|------------------------------|
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 11/10/1992 | 17:41 | 11/10/1992 | 22:00 | 4.31   | 1450 | FORCED DRAFT FAN CONTROLS    |
| 521 | 178 | Oak Creek #7 | 000* | 175 | D1 | 11/13/1992 | 16:30 | 11/15/1992 | 1:45  | 33.25  | 310  | PULVERIZER MILLS             |
| 521 | 178 | Oak Creek #7 | 000* | 160 | D1 | 11/18/1992 | 10:15 | 11/18/1992 | 11:30 | 1.25   | 1475 | ID FAN CONTROLS              |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 11/19/1992 | 14:23 | 11/19/1992 | 15:40 | 1.28   | 1710 | COMBUSTION CONTROLS          |
| 521 | 178 | Oak Creek #7 | 000* | 180 | D1 | 11/24/1992 | 16:10 | 11/24/1992 | 17:50 | 1.66   | 1475 | ID FAN CONTROLS              |
| 521 | 178 | Oak Creek #7 | 000* | 175 | D1 | 11/25/1992 | 7:40  | 11/25/1992 | 8:50  | 1.16   | 310  | PULVERIZER MILLS             |
| 521 | 178 | Oak Creek #7 | 000* | 140 | D1 | 11/25/1992 | 8:50  | 11/25/1992 | 12:00 | 3.16   | 410  | OTHER BURNER PROBLEMS        |
| 521 | 178 | Oak Creek #7 | 000* | 175 | D1 | 11/25/1992 | 12:00 | 11/25/1992 | 20:10 | 8.16   | 310  | PULVERIZER MILLS             |
| 521 | 178 | Oak Creek #7 | 000* | 131 | D1 | 12/3/1992  | 15:40 | 12/3/1992  | 16:20 | 0.66   | 3415 | FDWTR PMP/DRIVE LUBE OIL SYS |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 12/4/1992  | 16:45 | 12/4/1992  | 19:30 | 2.75   | 410  | OTHER BURNER PROBLEMS        |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 12/14/1992 | 13:03 | 12/14/1992 | 14:03 | 1      | 1710 | COMBUSTION CONTROLS          |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 12/22/1992 | 17:40 | 12/22/1992 | 19:32 | 1.86   | 1480 | ID FAN MOTORS-VARIABLE SPEED |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 12/24/1992 | 21:13 | 12/27/1992 | 20:50 | 71.61  | 0    | Reserve Shutdown             |
| 521 | 178 | Oak Creek #7 | 000* | 245 | D1 | 1/4/1993   | 9:30  | 1/5/1993   | 8:00  | 22.5   | 310  | PULVERIZER MILL              |
| 521 | 178 | Oak Creek #7 |      |     | NC | 1/22/1993  | 22:00 | 1/25/1993  | 2:45  | 52.75  | 1420 | OTHER FD FAN PROBLEM         |
| 521 | 178 | Oak Creek #7 |      |     | NC | 2/13/1993  | 0:01  | 2/15/1993  | 17:00 | 64.98  | 740  | BOILER RECIRCULATION PUMPS   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 2/23/1993  | 3:13  | 2/23/1993  | 3:47  | 0.56   | 1710 | COMBUSTION CONTROLS          |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 2/24/1993  | 16:45 | 2/24/1993  | 18:00 | 1.25   | 1710 | COMBUSTION CONTROLS          |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 3/18/1993  | 19:00 | 3/18/1993  | 21:40 | 2.66   | 1710 | COMBUSTION CONTROLS          |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 3/21/1993  | 8:30  | 3/21/1993  | 9:30  | 1      | 1710 | COMBUSTION CONTROLS          |
| 521 | 178 | Oak Creek #7 | *    |     | SF | 3/21/1993  | 9:44  | 3/21/1993  | 10:31 | 0.78   | 385  | IGNITERS                     |
| 521 | 178 | Oak Creek #7 | 000* | 130 | D1 | 3/21/1993  | 16:30 | 3/22/1993  | 19:00 | 26.5   | 1480 | OTHER ID FAN PROBLEMS        |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 4/3/1993   | 9:09  | 4/3/1993   | 10:35 | 1.43   | 1710 | COMBUSTION CONTROLS          |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 4/3/1993   | 20:38 | 4/3/1993   | 21:26 | 0.8    | 3499 | OTHER FDWTR SYS PROBLEMS     |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 4/12/1993  | 15:18 | 4/12/1993  | 16:02 | 0.73   | 3499 | OTHER FDWTR SYSTEM PROBLEMS  |
| 521 | 178 | Oak Creek #7 | *    | 245 | D1 | 4/15/1993  | 8:00  | 4/16/1993  | 0:01  | 16.01  | 9270 | WET COAL                     |
| 521 | 178 | Oak Creek #7 | *    | 240 | D1 | 4/16/1993  | 10:00 | 4/16/1993  | 23:00 | 13     | 9270 | WET COAL                     |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 4/24/1993  | 22:01 | 4/26/1993  | 6:24  | 32.38  | 400  | BURNER WINDBOX FIRES         |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 4/26/1993  | 11:51 | 4/26/1993  | 14:59 | 3.13   | 4265 | TURBINE DRAIN & VENT VALVES  |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 4/30/1993  | 21:27 | 5/3/1993   | 5:36  | 56.15  | 360  | BURNER                       |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 5/3/1993   | 8:04  | 5/8/1993   | 5:15  | 117.18 | 360  | BURNER                       |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 5/8/1993   | 9:24  | 5/8/1993   | 10:17 | 0.88   | 1750 | BURNER MANAGEMENT SYSTEM     |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 5/15/1993  | 9:47  | 5/15/1993  | 16:30 | 6.71   | 4430 | LAND SEAL SYSTEM             |
| 521 | 178 | Oak Creek #7 | *    | 170 | D1 | 6/17/1993  | 10:37 | 6/17/1993  | 16:20 | 5.71   | 3410 | FEEDWATER PUMP               |
| 521 | 178 | Oak Creek #7 | *    | 165 | D1 | 6/17/1993  | 10:38 | 6/17/1993  | 16:20 | 5.7    | 620  | ATTEMPERATOR PROBLEMS        |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 6/18/1993  | 20:29 | 6/22/1993  | 2:05  | 77.6   | 0    | Reserve Shutdown             |
| 521 | 178 | Oak Creek #7 | *    | 170 | D1 | 6/22/1993  | 2:05  | 6/23/1993  | 13:25 | 35.33  | 3410 | FEEDWATER PUMP               |
| 521 | 178 | Oak Creek #7 | *    | 165 | D1 | 6/22/1993  | 2:06  | 6/23/1993  | 13:25 | 35.31  | 620  | ATTEMPERATOR PROBLEMS        |
| 521 | 178 | Oak Creek #7 | *    |     | NC | 6/23/1993  | 22:00 | 6/24/1993  | 6:30  | 8.5    | 3411 | FEEDWATER PUMP DRIVE-MOTOR   |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 6/25/1993  | 0:31  | 6/25/1993  | 2:59  | 2.46   | 0    | Reserve Shutdown             |
| 521 | 178 | Oak Creek #7 | *    |     | NC | 6/27/1993  | 7:45  | 6/28/1993  | 1:00  | 17.25  | 1410 | FORCED DRAFT FAN MOTOR       |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 7/7/1993   | 5:46  | 7/7/1993   | 13:38 | 7.86   | 3149 | OTHER LOSS OF VACUUM         |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 7/7/1993   | 15:01 | 7/8/1993   | 17:27 | 26.43  | 3121 | EXPANSION JOINT              |
| 521 | 178 | Oak Creek #7 | 000* | 185 | D1 | 7/9/1993   | 1:00  | 7/9/1993   | 23:35 | 22.58  | 1410 | FD FAN MOTOR                 |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 7/9/1993   | 23:35 | 7/11/1993  | 15:54 | 40.31  | 3121 | EXPANSION JOINT              |
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 7/14/1993  | 10:00 | 7/15/1993  | 0:04  | 14.06  | 3110 | CONDENSER TUBE LEAKS         |

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|     |     |              |      |     |    |            |       |            |       |         |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|---------|------|--|
| 521 | 178 | Oak Creek #7 | *    |     | MO | 7/15/1993  | 0:04  | 7/18/1993  | 13:25 | 85.35   | 3121 | EXPANSION JOINT                                  |
| 521 | 178 | Oak Creek #7 | 000* | 265 | D1 | 8/13/1993  | 11:30 | 8/13/1993  | 15:00 | 3.5     | 9270 | WET COAL   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/17/1993  | 21:16 | 8/17/1993  | 22:57 | 1.68    | 1475 | ID FAN CONTROL                                   |
| 521 | 178 | Oak Creek #7 | 000* | 165 | D1 | 8/19/1993  | 8:48  | 8/19/1993  | 11:50 | 3.03    | 1480 | OTHER ID FAN PROBLEMS                            |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 8/30/1993  | 11:00 | 8/30/1993  | 21:45 | 10.75   | 9270 | WET COAL   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 9/5/1993   | 2:39  | 9/5/1993   | 4:13  | 1.56    | 9270 | WET COAL   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 9/5/1993   | 4:54  | 9/5/1993   | 5:41  | 0.78    | 3401 | FDWTR FUMP DRIVE CONTROLS                        |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 9/5/1993   | 8:31  | 9/5/1993   | 12:36 | 4.08    | 4265 | TURB DRAIN & VENT VALVES                         |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 9/5/1993   | 15:59 | 9/5/1993   | 18:00 | 2.01    | 3499 | OTHER FDWTR PROBLEMS                             |
| 521 | 178 | Oak Creek #7 | 000* | 175 | D1 | 10/10/1993 | 6:00  | 10/11/1993 | 11:40 | 29.66   | 1420 | OTHER FORCED FAN PROBLEMS                        |
| 521 | 178 | Oak Creek #7 | 000* | 165 | D1 | 10/19/1993 | 6:15  | 10/19/1993 | 12:00 | 5.75    | 3411 | FEEDWATER PUMP DRIVE MOTOR                       |
| 521 | 178 | Oak Creek #7 |      |     | NC | 10/25/1993 | 22:30 | 10/26/1993 | 5:05  | 6.58    | 3410 | FEEDWATER PUMP                                   |
| 521 | 178 | Oak Creek #7 |      |     | NC | 11/13/1993 | 0:01  | 11/15/1993 | 0:30  | 48.48   | 1400 | FORCE DRAFT FANS                                 |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 11/25/1993 | 4:43  | 12/31/1993 | 23:59 | 907.26  | 4400 | MAJOR TURBINE OVERHAUL                           |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 1/1/1994   | 0:02  | 3/7/1994   | 21:39 | 1581.61 | 4400 | MAJOR TURBINE OVERHAUL<br>STARTED 11/25/93 04:43 |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 3/8/1994   | 10:41 | 3/8/1994   | 11:31 | 0.83    | 9910 | MAINTENANCE ERROR - DC<br>SWITCHING              |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 3/8/1994   | 22:08 | 3/9/1994   | 4:32  | 6.4     | 4700 | GENERATOR VOLTAGE CONTROL                        |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 3/11/1994  | 21:23 | 3/11/1994  | 23:57 | 2.56    | 4460 | TURBINE OVERSPEED TRIP TEST                      |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 3/14/1994  | 8:00  | 3/14/1994  | 10:51 | 2.85    | 1080 | ECONOMIZER LEAK                                  |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 3/14/1994  | 10:51 | 3/16/1994  | 5:26  | 42.58   | 1080 | ECONOMIZER LEAK                                  |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 3/22/1994  | 15:41 | 3/22/1994  | 19:38 | 3.95    | 3950 | PROCESS COMPUTER                                 |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 3/26/1994  | 3:37  | 3/28/1994  | 6:00  | 50.38   | 0    | Reserve Shutdown                                 |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 3/28/1994  | 6:00  | 3/31/1994  | 7:58  | 73.96   | 4260 | MAIN STOP VALVES                                 |
| 521 | 178 | Oak Creek #7 | *    |     | U3 | 4/5/1994   | 23:13 | 4/7/1994   | 3:58  | 28.75   | 1070 | SECOND REHEATER                                  |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 5/2/1994   | 21:36 | 5/6/1994   | 21:28 | 95.86   | 4220 | LP TURBINE SHAFT SEALS                           |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 6/13/1994  | 22:27 | 6/14/1994  | 3:27  | 5       | 3950 | PROCESS COMPUTER                                 |
| 521 | 178 | Oak Creek #7 | 000* | 260 | PD | 6/28/1994  | 6:00  | 6/28/1994  | 13:00 | 7       | 3501 | HEATER DRAIN PUMP                                |
| 521 | 178 | Oak Creek #7 | *    |     | NC | 7/9/1994   | 3:00  | 7/10/1994  | 6:30  | 27.5    | 3310 | CONDENSATE PUMP                                  |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 8/9/1994   | 13:30 | 8/9/1994   | 22:00 | 8.5     | 3112 | COND. TUBE FOULING TUBE SIDE                     |
| 521 | 178 | Oak Creek #7 | 000* | 205 | D1 | 10/10/1994 | 10:00 | 10/10/1994 | 13:00 | 3       | 330  | PULVERIZER COAL LEAK                             |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 10/10/1994 | 23:22 | 10/11/1994 | 0:10  | 0.8     | 1710 | COMBUSTION CONTROLS                              |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 10/11/1994 | 8:00  | 10/12/1994 | 1:25  | 17.41   | 330  | PULVERIZER COAL LEAK                             |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 10/29/1994 | 3:43  | 10/29/1994 | 5:03  | 1.33    | 9900 | OPERATOR ERROR                                   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 11/3/1994  | 10:42 | 11/3/1994  | 11:51 | 1.15    | 1710 | COMBUSTION CONTROLS                              |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 11/6/1994  | 17:06 | 11/6/1994  | 17:57 | 0.85    | 1710 | COMBUSTION CONTROLS                              |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 11/7/1994  | 7:43  | 11/7/1994  | 8:44  | 1.01    | 1710 | COMBUSTION CONTROLS                              |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 11/22/1994 | 22:01 | 11/24/1994 | 0:20  | 26.31   | 0    | Reserve Shutdown                                 |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 11/24/1994 | 0:20  | 11/27/1994 | 13:49 | 85.48   | 360  | BURNERS  |
| 521 | 178 | Oak Creek #7 | 000* | 255 | D1 | 11/29/1994 | 17:00 | 11/29/1994 | 21:30 | 4.5     | 1850 | BOILER WATER CONDITION                           |
| 521 | 178 | Oak Creek #7 | 000* | 140 | D1 | 12/30/1994 | 8:15  | 12/31/1994 | 23:59 | 39.73   | 3411 | FDWTR PUMP DRIVE MOTOR                           |
| 521 | 178 | Oak Creek #7 | *    |     | NC | 1/1/1995   | 0:02  | 1/2/1995   | 9:45  | 33.71   | 3411 | FDWTR PUMP DRIVE MOTOR                           |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 2/2/1995   | 10:15 | 2/4/1995   | 5:04  | 42.81   | 4301 | TURBINE GOVERNOR SYS                             |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 2/4/1995   | 5:04  | 2/5/1995   | 6:09  | 25.08   | 4301 | TURBINE GOVERNOR SYS                             |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 2/5/1995   | 12:36 | 2/5/1995   | 23:23 | 10.78   | 4309 | OTHER TURB CONTROL PROBLEMS                      |



|     |     |              |      |     |    |            |       |            |       |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---|
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 2/6/1995   | 20:48 | 2/7/1995   | 8:40  | 11.86  | 3220 | CIRCULATING WATER VLVS                                  |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 2/8/1995   | 2:03  | 2/8/1995   | 3:04  | 1.01   | 741  | BOILER RECIRCULATION PMP MTR                            |
| 521 | 178 | Oak Creek #7 | 000* | 204 | D1 | 2/20/1995  | 9:05  | 2/20/1995  | 10:35 | 1.5    | 4301 | TURBINE GOVERNOR SYSTEM                                 |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 3/1/1995   | 3:40  | 3/1/1995   | 6:05  | 2.41   | 3271 | INTAKE GRATING FOULING                                  |
| 521 | 178 | Oak Creek #7 | 000* | 263 | D1 | 3/1/1995   | 18:00 | 3/2/1995   | 2:00  | 8      | 1850 | BOILER WATER CONDITION                                  |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 3/31/1995  | 23:00 | 4/8/1995   | 18:42 | 187.7  | 4301 | TURBINE GOVERNOR SYSTEM                                 |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 8/20/1995  | 17:30 | 8/21/1995  | 10:46 | 17.26  | 9270 | WET COAL  |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/21/1995  | 10:46 | 8/21/1995  | 13:48 | 3.03   | 1470 | INDUCED DRFT FAN MOTOR & DRIVES                         |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 8/21/1995  | 13:48 | 8/22/1995  | 20:50 | 31.03  | 1470 | INDUCED DRFT FAN MTR AND DRIVES                         |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 9/3/1995   | 11:45 | 9/3/1995   | 17:00 | 5.25   | 0    | Reserve Shutdown  |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 9/3/1995   | 17:00 | 9/3/1995   | 22:00 | 5      | 3110 | CONDENSER TUBE LEAKS                                    |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 9/3/1995   | 22:00 | 9/4/1995   | 9:47  | 11.78  | 0    | Reserve Shutdown  |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 9/13/1995  | 9:00  | 9/13/1995  | 10:15 | 1.25   | 3501 | HEATER DRAIN PUMP                                       |
| 521 | 178 | Oak Creek #7 | 000* | 240 | D1 | 9/18/1995  | 9:40  | 9/20/1995  | 14:40 | 53     | 310  | PULVERIZER MILLS  |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 9/30/1995  | 0:06  | 10/1/1995  | 23:25 | 47.31  | 0    | Reserve Shutdown  |
| 521 | 178 | Oak Creek #7 | *    |     | U2 | 10/6/1995  | 23:17 | 10/8/1995  | 19:43 | 44.43  | 1000 | BOILER TUBE LEAKS<br>OTHER SLAG&ASH REMOVAL<br>PROBLEMS |
| 521 | 178 | Oak Creek #7 | 000* | 125 | D1 | 10/29/1995 | 17:00 | 10/30/1995 | 8:45  | 15.75  | 920  |   |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 1/1/1996   | 0:00  | 1/28/1996  | 15:31 | 663.51 | 1310 | Waterside Boiler tube cleaning.                         |
| 521 | 178 | Oak Creek #7 | 000* | 200 | D1 | 2/10/1996  | 18:00 | 2/11/1996  | 13:00 | 19     | 920  |   |
| 521 | 178 | Oak Creek #7 | 000* | 160 | D2 | 2/23/1996  | 2:30  | 2/25/1996  | 11:30 | 57     | 1400 |   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 3/2/1996   | 5:06  | 3/2/1996   | 7:59  | 2.88   | 9910 |   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 3/21/1996  | 6:52  | 3/21/1996  | 7:30  | 0.63   | 1710 |   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 3/26/1996  | 15:22 | 3/26/1996  | 16:20 | 0.96   | 1710 |   |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D4 | 4/26/1996  | 10:00 | 4/26/1996  | 20:30 | 10.5   | 335  |   |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D4 | 4/28/1996  | 8:50  | 4/30/1996  | 12:00 | 51.16  | 345  | nil   |
| 521 | 178 | Oak Creek #7 | 000* | 233 | D4 | 5/2/1996   | 11:45 | 5/2/1996   | 13:30 | 1.75   | 280  | Normal  |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 5/11/1996  | 8:08  | 5/11/1996  | 9:00  | 0.86   | 1470 |   |
| 521 | 178 | Oak Creek #7 | 000* | 120 | D1 | 5/13/1996  | 10:30 | 5/13/1996  | 12:00 | 1.5    | 1470 |   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 5/21/1996  | 7:12  | 5/21/1996  | 8:04  | 0.86   | 1480 |   |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 5/27/1996  | 0:07  | 5/27/1996  | 8:24  | 8.28   | 0    | Reserve Shutdown  |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 6/11/1996  | 11:27 | 6/11/1996  | 12:42 | 1.25   | 1799 |   |
| 521 | 178 | Oak Creek #7 | 000* | 135 | D1 | 6/17/1996  | 8:00  | 6/19/1996  | 21:00 | 61     | 1400 | nil   |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 7/3/1996   | 0:30  | 7/4/1996   | 4:59  | 28.48  | 0    | Reserve Shutdown  |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 7/5/1996   | 9:00  | 7/9/1996   | 21:58 | 108.96 | 1000 | nil   |
| 521 | 178 | Oak Creek #7 | 000* | 165 | D1 | 7/15/1996  | 6:45  | 7/15/1996  | 13:35 | 6.83   | 1420 |   |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 7/30/1996  | 5:00  | 7/30/1996  | 12:00 | 7      | 250  | Normal  |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/4/1996   | 1:00  | 8/5/1996   | 1:04  | 24.06  | 1000 |   |
| 521 | 178 | Oak Creek #7 | 000* | 120 | D1 | 8/23/1996  | 7:30  | 8/23/1996  | 10:30 | 3      | 1470 |   |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/30/1996  | 10:48 | 8/30/1996  | 13:34 | 2.76   | 4261 |   |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 9/4/1996   | 5:48  | 9/4/1996   | 16:11 | 10.38  | 1470 | nil   |
| 521 | 178 | Oak Creek #7 | 000* | 260 | D1 | 9/4/1996   | 16:11 | 9/5/1996   | 15:50 | 23.65  | 1470 | nil   |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 9/5/1996   | 15:50 | 9/5/1996   | 16:30 | 0.66   | 250  |   |
| 521 | 178 | Oak Creek #7 | 000* | 160 | D1 | 9/5/1996   | 16:30 | 9/5/1996   | 19:00 | 2.5    | 340  |   |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 9/5/1996   | 19:00 | 9/5/1996   | 23:00 | 4      | 250  |   |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 9/5/1996   | 23:00 | 9/6/1996   | 6:50  | 7.83   | 1470 |   |

|     |     |              |      |     |    |            |       |            |       |        |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|--|
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 9/9/1996   | 12:45 | 9/17/1996  | 1:25  | 180.66 | 1000 | nil  |
| 521 | 178 | Oak Creek #7 | 000* | 150 | D1 | 9/17/1996  | 13:30 | 9/18/1996  | 8:00  | 18.5   | 3112 | nil  |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 9/18/1996  | 8:00  | 9/18/1996  | 20:00 | 12     | 3112 |  |
| 521 | 178 | Oak Creek #7 | 000* | 225 | D1 | 9/19/1996  | 7:00  | 9/20/1996  | 0:01  | 17.01  | 3112 | nil  |
| 521 | 178 | Oak Creek #7 | 000* | 250 | D1 | 10/7/1996  | 19:00 | 10/8/1996  | 2:30  | 7.5    | 3112 | Normal   |
| 521 | 178 | Oak Creek #7 | 000* | 180 | D1 | 10/10/1996 | 7:30  | 10/11/1996 | 3:00  | 19.5   | 3112 |  |
| 521 | 178 | Oak Creek #7 | 000* | 220 | D1 | 11/17/1996 | 18:30 | 11/18/1996 | 0:01  | 5.51   | 250  |  |
| 521 | 178 | Oak Creek #7 | 000* | 210 | D1 | 11/18/1996 | 8:00  | 11/18/1996 | 14:30 | 6.5    | 250  |  |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 1/14/1997  | 1:10  | 1/16/1997  | 21:03 | 67.88  | 1000 | Furnace Wall   |
| 521 | 178 | Oak Creek #7 | 00*0 | 250 | D1 | 2/3/1997   | 12:00 | 2/4/1997   | 17:15 | 29.25  | 1480 | Induced Draft Fan  |
| 521 | 178 | Oak Creek #7 | 00*0 | 255 | D1 | 2/5/1997   | 9:30  | 2/5/1997   | 23:59 | 14.48  | 110  | Coal Blending  |
| 521 | 178 | Oak Creek #7 | 00*0 | 210 | D1 | 2/17/1997  | 18:40 | 2/18/1997  | 6:30  | 11.83  | 280  | Pulverizer Fire  |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 4/20/1997  | 1:08  | 4/20/1997  | 4:01  | 2.88   | 0    | Reserve Shutdown   |
| 521 | 178 | Oak Creek #7 | 00*0 | 250 | D1 | 4/22/1997  | 19:14 | 4/23/1997  | 3:00  | 7.76   | 1050 | Superheat Tube Leak  |
| 521 | 178 | Oak Creek #7 | 00*0 | 230 | D1 | 4/23/1997  | 3:00  | 4/25/1997  | 18:40 | 63.66  | 1050 | Superheat Tube Leak  |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 4/25/1997  | 18:40 | 5/1/1997   | 12:08 | 137.46 | 1488 | Maintenance Outage to Wash Air Heaters                     |
| 521 | 178 | Oak Creek #7 | *    |     | NC | 5/7/1997   | 23:35 | 5/8/1997   | 3:00  | 3.41   | 250  | 75 Mill Inspect Fdr for Cause of Under Weight Leveling Bar |
| 521 | 178 | Oak Creek #7 | 00*0 | 120 | D1 | 7/3/1997   | 5:00  | 7/3/1997   | 12:00 | 7      | 892  | Bottom Ash Clunker Grinder                                 |
| 521 | 178 | Oak Creek #7 | *    |     | NC | 8/2/1997   | 2:00  | 8/4/1997   | 4:00  | 50     | 345  | Rebuild 74 Mill Rollers                                    |
| 521 | 178 | Oak Creek #7 | 00*0 | 105 | D1 | 8/4/1997   | 23:00 | 8/6/1997   | 4:00  | 29     | 3112 | Condenser Tube Fouling                                     |
| 521 | 178 | Oak Creek #7 | 00*0 | 220 | D1 | 9/3/1997   | 12:00 | 9/3/1997   | 22:00 | 10     | 3112 | Condenser Tube Fouling                                     |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 9/24/1997  | 20:20 | 9/25/1997  | 2:55  | 6.58   | 1750 | Unit Tripped When Boiler Master Went Into Auto             |
| 521 | 178 | Oak Creek #7 | 00*0 | 230 | D1 | 10/2/1997  | 12:02 | 10/7/1997  | 13:30 | 121.46 | 3501 | Heater Drain Pumps   |
| 521 | 178 | Oak Creek #7 | 00*0 | 130 | PD | 10/25/1997 | 23:30 | 10/26/1997 | 11:30 | 12     | 892  | Reduced Capacity to Isolate & Replace Clunker Grinder      |
| 521 | 178 | Oak Creek #7 | 00*0 | 215 | D1 | 10/27/1997 | 7:00  | 10/27/1997 | 19:00 | 12     | 3112 | Condenser Tube Fouling                                     |
| 521 | 178 | Oak Creek #7 | 00*0 | 120 | D1 | 11/26/1997 | 22:15 | 11/27/1997 | 0:01  | 1.76   | 1470 | 71 ID Fan Motor Drive                                      |
| 521 | 178 | Oak Creek #7 | 00*0 | 150 | D1 | 1/4/1998   | 21:00 | 1/6/1998   | 4:30  | 31.5   | 3415 | Feedwater Pump Drive/Lube Oil System                       |
| 521 | 178 | Oak Creek #7 | 00*0 | 265 | D1 | 3/4/1998   | 16:17 | 3/4/1998   | 19:00 | 2.71   | 110  | Coal Blending  |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 4/10/1998  | 4:15  | 4/27/1998  | 6:03  | 409.8  | 1488 | Maintenance Outage   |
| 521 | 178 | Oak Creek #7 | 00*0 | 160 | D1 | 4/28/1998  | 6:00  | 5/9/1998   | 17:15 | 275.25 | 3411 | Feedwater Pump Drive Motor                                 |
| 521 | 178 | Oak Creek #7 | 00*0 | 220 | D1 | 5/15/1998  | 7:10  | 5/15/1998  | 8:00  | 0.83   | 1471 | 72 ID fan VFD Fault BO Ground Alarm                        |
| 521 | 178 | Oak Creek #7 | 00*0 | 160 | D1 | 5/27/1998  | 7:20  | 5/27/1998  | 8:00  | 0.66   | 385  | Igniters   |
| 521 | 178 | Oak Creek #7 | 00*0 | 195 | D1 | 6/8/1998   | 20:00 | 6/8/1998   | 22:25 | 2.41   | 330  | Pulverizer Coal Leak                                       |
| 521 | 178 | Oak Creek #7 | 00*0 | 160 | D1 | 6/16/1998  | 18:01 | 6/16/1998  | 20:09 | 2.13   | 1455 | 72 ID Fan UFD Trip High Coolant Temp                       |
| 521 | 178 | Oak Creek #7 | 00*0 | 197 | D1 | 7/5/1998   | 11:30 | 7/5/1998   | 17:00 | 5.5    | 3210 | Circulating Water Pump                                     |
| 521 | 178 | Oak Creek #7 | 00*0 | 220 | D1 | 7/8/1998   | 14:41 | 7/8/1998   | 14:52 | 0.18   | 250  | 73 Feeder Trip   |
| 521 | 178 | Oak Creek #7 | 00*0 | 273 | D1 | 7/11/1998  | 17:30 | 7/12/1998  | 3:00  | 9.5    | 3199 | Other Miscellaneous Condensing Problems                    |
| 521 | 178 | Oak Creek #7 | 00*0 | 255 | D1 | 8/3/1998   | 8:00  | 8/4/1998   | 22:00 | 38     | 3199 | Other Miscellaneous Condensing Problems                    |
| 521 | 178 | Oak Creek #7 | 00*0 | 240 | D1 | 8/5/1998   | 9:45  | 8/5/1998   | 21:00 | 11.25  | 3280 | Condenser Back Pressure                                    |
| 521 | 178 | Oak Creek #7 | 00*0 | 260 | D1 | 8/6/1998   | 10:00 | 8/7/1998   | 1:00  | 15     | 3280 | Condenser Back Pressure                                    |

|     |     |              |      |     |     |            |           |            |           |        |        |  |  |
|-----|-----|--------------|------|-----|-----|------------|-----------|------------|-----------|--------|--------|--|--|
| 521 | 178 | Oak Creek #7 | 00*0 | 233 | D1  | 8/7/1998   | 8:30      | 8/7/1998   | 23:00     | 14.5   | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 240 | D1  | 8/8/1998   | 10:45     | 8/8/1998   | 12:10     | 1.41   | 3199   | Condenser Back Pressure High           |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 240 | D1  | 8/10/1998  | 17:20     | 8/10/1998  | 23:30     | 6.16   | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 250 | D1  | 8/11/1998  | 8:00      | 8/11/1998  | 19:15     | 11.25  | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 140 | D1  | 8/11/1998  | 19:15     | 8/11/1998  | 23:58     | 4.71   | 3199   | Condenser Back Pressure - Moss Fouling |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 127 | D1  | 8/11/1998  | 23:58     | 8/12/1998  | 13:53     | 13.91  | 3199   | Condenser Back Pressure - Moss Fouling |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 230 | D1  | 8/14/1998  | 10:00     | 8/14/1998  | 23:00     | 13     | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 220 | D1  | 8/15/1998  | 7:00      | 8/15/1998  | 23:00     | 16     | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 240 | D1  | 8/16/1998  | 7:00      | 8/16/1998  | 23:30     | 16.5   | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 232 | D1  | 8/17/1998  | 8:00      | 8/17/1998  | 22:00     | 14     | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 260 | D1  | 8/18/1998  | 6:00      | 8/18/1998  | 11:25     | 5.41   | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 160 | D1  | 8/18/1998  | 11:25     | 8/19/1998  | 23:30     | 36.08  | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 265 | D1  | 8/20/1998  | 8:00      | 8/20/1998  | 15:00     | 7      | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 265 | D1  | 8/20/1998  | 23:00     | 8/21/1998  | 4:30      | 5.5    | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 265 | D1  | 8/21/1998  | 4:43      | 8/24/1998  | 16:14     | 83.51  | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 180 | D1  | 8/24/1998  | 16:14     | 8/27/1998  | 8:31      | 64.28  | 60     | Coal Crushers Including Motor          |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 265 | D1  | 8/27/1998  | 8:31      | 9/1/1998   | 11:00     | 122.48 | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 250 | D1  | 9/1/1998   | 11:00     | 9/4/1998   | 10:30     | 71.5   | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 200 | D1  | 9/4/1998   | 10:30     | 9/5/1998   | 20:45     | 34.25  | 250    | Pulverizer Feeders                     |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 160 | D1  | 9/8/1998   | 7:00      | 9/8/1998   | 10:00     | 3      | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 120 | D1  | 9/8/1998   | 10:00     | 9/10/1998  | 12:45     | 50.75  | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | *    |     | U1  | 9/14/1998  | 7:52      | 9/14/1998  | 14:17     | 6.41   | 3261   | Traveling Screen Fouling               |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 200 | D1  | 9/14/1998  | 14:17     | 9/14/1998  | 23:00     | 8.71   | 1850   | Boiler Water Condition                 |  |
| 521 | 178 | Oak Creek #7 | *    |     | U1  | 9/15/1998  | 15:45     | 9/15/1998  | 18:00     | 2.25   | 3261   | Traveling Screen Fouling               |  |
| 521 | 178 | Oak Creek #7 | *    |     | MO  | 11/12/1998 | 0:28      | 11/16/1998 | 16:11     | 111.71 | 3620   | Changing Out Main Transformer Oil Pump |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 225 | D1  | 11/18/1998 | 13:00     | 11/20/1998 | 16:03     | 51.05  | 200    | 73 Mill Exhauster Fan Repair           |  |
| 521 | 178 | Oak Creek #7 | *    |     | U1  | 11/30/1998 | 7:37      | 11/30/1998 | 8:20      | 0.71   | 340    | Other Pulverizer Problems              |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 220 | D4  | 12/8/1998  | 7:00      | 12/17/1998 | 0:00      | 209    | 200    | 75 Mill                                |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 220 | D4  | 12/17/1998 | 9:15      | 12/17/1998 | 10:30     | 1.25   | 345    | 73 Mill Overhaul                       |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 240 | D4  | 12/17/1998 | 10:30     | 12/30/1998 | 5:20      | 306.83 | 345    | 73 Mill Overhaul                       |  |
| 521 | 178 | Oak Creek #7 | 00*0 | 210 | D1  | 12/30/1998 | 5:20      | 12/30/1998 | 5:50      | 0.5    | 3199   | Condenser Back Pressure                |  |
| 521 | 178 | Oak Creek #7 | *    |     | 200 | D1         | 1/5/1999  | 10:30      | 1/10/1999 | 17:30  | 127    | 1400                                   | Forced Draft Fans                                  |
| 521 | 178 | Oak Creek #7 | *    |     | 210 | D1         | 1/22/1999 | 19:00      | 1/22/1999 | 21:00  | 2      | 1488                                   | Air Heater   |
| 521 | 178 | Oak Creek #7 | *    |     | MO  | 1/29/1999  | 22:40     | 2/1/1999   | 14:53     | 64.21  | 1420   | Forced Draft Damper Repairs            |  |
| 521 | 178 | Oak Creek #7 | *    |     | U1  | 2/5/1999   | 9:47      | 2/5/1999   | 11:34     | 1.78   | 1750   | Bumer Management System                |  |
| 521 | 178 | Oak Creek #7 | *    |     | MO  | 2/27/1999  | 0:03      | 3/10/1999  | 11:30     | 275.45 | 890    | Bottom Ash System                      |  |
| 521 | 178 | Oak Creek #7 | *    |     | 140 | D1         | 3/13/1999 | 11:00      | 3/13/1999 | 11:50  | 0.83   | 1471                                   | 71 ID Fan Motor - Variable Speed Drive             |
| 521 | 178 | Oak Creek #7 | *    |     | U1  | 3/18/1999  | 9:26      | 3/18/1999  | 10:09     | 0.71   | 9900   | Operator Error                         |  |
| 521 | 178 | Oak Creek #7 | *    |     | 215 | D2         | 3/24/1999 | 9:00       | 3/25/1999 | 9:00   | 24     | 30                                     | Coal Conveyors                                     |
| 521 | 178 | Oak Creek #7 | *    |     | 220 | D1         | 4/1/1999  | 12:45      | 4/1/1999  | 14:20  | 1.58   | 310                                    | 73 Mill  |
| 521 | 178 | Oak Creek #7 | *    |     | 230 | D1         | 4/7/1999  | 11:55      | 4/8/1999  | 0:24   | 12.48  | 280                                    | Fires in 75 Mill Due to Pyrite Sweeps Being Broken |
| 521 | 178 | Oak Creek #7 | *    |     | U1  | 4/13/1999  | 6:39      | 4/13/1999  | 7:51      | 1.2    | 1799   | Boiler Control Problems                |  |
| 521 | 178 | Oak Creek #7 | *    |     | 170 | D1         | 4/20/1999 | 5:30       | 4/20/1999 | 12:00  | 6.5    | 330                                    | Pulverizer Coal Leak                               |
| 521 | 178 | Oak Creek #7 | *    |     | 280 | D1         | 4/20/1999 | 12:00      | 4/28/1999 | 9:08   | 189.13 | 340                                    | Exhauster Wheel Replacement & Tile Repairs         |

|     |     |              |      |     |    |            |       |            |       |        |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|--|
| 521 | 178 | Oak Creek #7 | *    | 260 | D1 | 4/28/1999  | 9:08  | 5/10/1999  | 21:18 | 300.16 | 340  | Exhauster Wheel Replacement & Tile Repairs |
| 521 | 178 | Oak Creek #7 | *    | 220 | D1 | 5/10/1999  | 21:18 | 5/11/1999  | 6:00  | 8.7    | 325  | Pulverizer Skidding                        |
| 521 | 178 | Oak Creek #7 | *    | 280 | D1 | 5/13/1999  | 17:03 | 5/14/1999  | 9:00  | 15.95  | 300  | Pulverizer Motors & Drives                 |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 5/24/1999  | 2:34  | 5/24/1999  | 5:19  | 2.75   | 1799 | Boiler Air Control Problems                |
| 521 | 178 | Oak Creek #7 | *    | 150 | D1 | 5/26/1999  | 12:00 | 5/26/1999  | 14:00 | 2      | 3261 | Traveling Water Screen Fouling             |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 6/12/1999  | 11:30 | 6/12/1999  | 23:00 | 11.5   | 3430 | Feedwater Level Controls                   |
| 521 | 178 | Oak Creek #7 | *    |     | MO | 6/12/1999  | 23:00 | 6/13/1999  | 10:32 | 11.53  | 3110 | Condenser Tube Leak                        |
| 521 | 178 | Oak Creek #7 | 00°0 | 220 | D1 | 6/14/1999  | 10:00 | 6/14/1999  | 12:30 | 2.5    | 250  | Pulverizer Feeders - Wet Coal              |
| 521 | 178 | Oak Creek #7 | *    | 165 | D1 | 7/21/1999  | 13:49 | 7/21/1999  | 14:30 | 0.68   | 1471 | 71 ID Van UFD Trouble                      |
| 521 | 178 | Oak Creek #7 | *    | 165 | D1 | 7/21/1999  | 17:12 | 7/21/1999  | 19:00 | 1.8    | 1471 | 71 ID Fan UFD Trouble                      |
| 521 | 178 | Oak Creek #7 | *    | 145 | D1 | 8/13/1999  | 20:17 | 8/13/1999  | 21:30 | 1.21   | 3261 | Traveling Water Screen Fouling             |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/17/1999  | 9:07  | 8/17/1999  | 17:18 | 8.18   | 3261 | Traveling Water Screen Fouling             |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 8/27/1999  | 3:43  | 8/27/1999  | 5:21  | 1.63   | 4262 | #2 Intercept Valve Limit Switch            |
| 521 | 178 | Oak Creek #7 | *    |     | RS | 9/4/1999   | 0:43  | 9/7/1999   | 1:25  | 72.69  | 0    | Reserve Shutdown                           |
| 521 | 178 | Oak Creek #7 | *    | 235 | D1 | 9/30/1999  | 5:40  | 9/30/1999  | 15:00 | 9.33   | 250  | Pulverizer Feeders                         |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 10/4/1999  | 6:10  | 10/4/1999  | 8:15  | 2.08   | 1710 | Combustion Control                         |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 10/7/1999  | 8:05  | 10/11/1999 | 7:28  | 95.38  | 1000 | Furnace Wall                               |
| 521 | 178 | Oak Creek #7 | *    |     | NC | 10/21/1999 | 12:50 | 10/30/1999 | 0:28  | 203.63 | 345  | Pulverizer Overhaul                        |
| 521 | 178 | Oak Creek #7 | *    |     | PO | 10/30/1999 | 0:28  | 11/22/1999 | 13:32 | 565.06 | 1800 | Planned Maintenance Outage                 |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 11/23/1999 | 16:44 | 11/23/1999 | 17:51 | 1.11   | 1710 | Combustion Control                         |
| 521 | 178 | Oak Creek #7 | *    | 140 | D1 | 12/7/1999  | 5:00  | 12/7/1999  | 13:01 | 8.01   | 1530 | Air Heater Main Drive Coupling Trouble     |
| 521 | 178 | Oak Creek #7 | *    | 140 | D1 | 12/8/1999  | 5:00  | 12/8/1999  | 8:30  | 3.5    | 1530 | Reassembling Main Drive                    |
| 521 | 178 | Oak Creek #7 | *    | 145 | D1 | 12/10/1999 | 7:30  | 12/10/1999 | 17:30 | 10     | 1530 | Air Heater Drive (Air Drive Failed)        |
| 521 | 178 | Oak Creek #7 | *    |     | U1 | 12/21/1999 | 17:40 | 12/21/1999 | 19:24 | 1.73   | 1710 | Combustion Control                         |
| 521 | 188 | Oak Creek #8 |      | 218 | D1 | 1/4/1975   | 3:15  | 1/4/1975   | 5:45  | 2.5    | 3999 |  |
| 521 | 188 | Oak Creek #8 |      | 218 | D1 | 1/4/1975   | 5:45  | 1/4/1975   | 18:00 | 12.25  | 3999 |  |
| 521 | 188 | Oak Creek #8 |      | 148 | D1 | 1/11/1975  | 7:30  | 1/11/1975  | 13:30 | 6      | 1455 |  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 1/12/1975  | 10:17 | 1/13/1975  | 8:15  | 21.96  | 1060 |  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 1/13/1975  | 8:33  | 1/13/1975  | 23:07 | 14.56  | 1799 |  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 1/13/1975  | 23:07 | 1/14/1975  | 20:31 | 21.4   | 1060 |  |
| 521 | 188 | Oak Creek #8 |      | 233 | D1 | 1/21/1975  | 18:45 | 1/22/1975  | 10:35 | 15.83  | 3999 |  |
| 521 | 188 | Oak Creek #8 |      | 133 | D1 | 1/21/1975  | 21:30 | 1/22/1975  | 6:50  | 9.33   | 1455 |  |
| 521 | 188 | Oak Creek #8 |      | 128 | D1 | 1/29/1975  | 11:30 | 1/30/1975  | 4:00  | 16.5   | 1486 |  |
| 521 | 188 | Oak Creek #8 |      |     | PO | 2/2/1975   | 7:55  | 3/2/1975   | 6:00  | 670.08 | 1999 |  |
| 521 | 188 | Oak Creek #8 |      | 238 | D1 | 3/3/1975   | 22:30 | 3/5/1975   | 1:15  | 26.75  | 340  |  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 3/15/1975  | 7:00  | 3/17/1975  | 6:07  | 47.11  | 1100 |  |
| 521 | 188 | Oak Creek #8 |      | 233 | D1 | 3/22/1975  | 10:01 | 3/22/1975  | 15:30 | 5.48   | 340  |  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 3/28/1975  | 0:29  | 3/28/1975  | 8:19  | 7.83   | 1999 |  |
| 521 | 188 | Oak Creek #8 |      | 238 | D1 | 3/28/1975  | 8:19  | 3/28/1975  | 15:30 | 7.18   | 3999 |  |
| 521 | 188 | Oak Creek #8 |      | 228 | D1 | 3/28/1975  | 21:00 | 3/29/1975  | 5:35  | 8.58   | 3999 |  |
| 521 | 188 | Oak Creek #8 |      | 228 | D1 | 4/8/1975   | 18:30 | 4/9/1975   | 6:45  | 12.25  | 3999 |  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 4/12/1975  | 20:51 | 4/13/1975  | 7:07  | 10.26  | 8560 |  |
| 521 | 188 | Oak Creek #8 |      | 248 | D1 | 4/19/1975  | 13:16 | 4/19/1975  | 14:37 | 1.35   | 340  |  |
| 521 | 188 | Oak Creek #8 |      |     | MO | 4/26/1975  | 5:30  | 4/27/1975  | 8:14  | 26.73  | 4499 |  |
| 521 | 188 | Oak Creek #8 |      | 208 | D1 | 5/1/1975   | 15:30 | 5/2/1975   | 5:45  | 14.25  | 340  |  |

|     |     |              |     |    |            |       |            |       |        |      |
|-----|-----|--------------|-----|----|------------|-------|------------|-------|--------|------|
| 521 | 188 | Oak Creek #8 | 208 | D1 | 5/2/1975   | 23:30 | 5/3/1975   | 10:15 | 10.75  | 340  |
| 521 | 188 | Oak Creek #8 | 163 | PD | 5/3/1975   | 0:01  | 5/3/1975   | 3:30  | 3.48   | 340  |
| 521 | 188 | Oak Creek #8 | 228 | D1 | 5/8/1975   | 2:04  | 5/8/1975   | 5:45  | 3.68   | 340  |
| 521 | 188 | Oak Creek #8 | 138 | D1 | 5/10/1975  | 2:00  | 5/10/1975  | 18:45 | 16.75  | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 5/17/1975  | 0:08  | 5/18/1975  | 21:39 | 45.51  | 1000 |
| 521 | 188 | Oak Creek #8 | 228 | D1 | 6/3/1975   | 14:00 | 6/3/1975   | 15:15 | 1.25   | 340  |
| 521 | 188 | Oak Creek #8 | 228 | PD | 6/8/1975   | 2:00  | 6/8/1975   | 6:25  | 4.41   | 340  |
| 521 | 188 | Oak Creek #8 | 228 | PD | 6/10/1975  | 0:01  | 6/14/1975  | 13:20 | 109.31 | 340  |
| 521 | 188 | Oak Creek #8 | 133 | D1 | 6/12/1975  | 15:15 | 6/12/1975  | 22:20 | 7.08   | 1486 |
| 521 | 188 | Oak Creek #8 | 228 | D1 | 6/14/1975  | 13:30 | 6/14/1975  | 14:10 | 0.66   | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 6/14/1975  | 23:48 | 6/15/1975  | 6:30  | 6.7    | 8560 |
| 521 | 188 | Oak Creek #8 | 133 | D1 | 6/15/1975  | 6:30  | 6/15/1975  | 13:00 | 6.5    | 1486 |
| 521 | 188 | Oak Creek #8 | 233 | D1 | 6/23/1975  | 21:55 | 6/24/1975  | 10:15 | 12.33  | 3999 |
| 521 | 188 | Oak Creek #8 | 183 | D1 | 6/23/1975  | 23:45 | 6/26/1975  | 11:30 | 59.75  | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/2/1975   | 5:51  | 7/4/1975   | 15:16 | 57.41  | 4609 |
| 521 | 188 | Oak Creek #8 | 226 | D1 | 7/9/1975   | 0:01  | 7/9/1975   | 12:00 | 11.98  | 340  |
| 521 | 188 | Oak Creek #8 | 216 | D1 | 7/28/1975  | 0:30  | 7/28/1975  | 12:40 | 12.16  | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 8/15/1975  | 21:12 | 8/17/1975  | 2:03  | 28.85  | 1060 |
| 521 | 188 | Oak Creek #8 |     | MO | 8/29/1975  | 1:18  | 9/2/1975   | 0:53  | 95.58  | 620  |
| 521 | 188 | Oak Creek #8 |     | U1 | 9/4/1975   | 3:38  | 9/5/1975   | 7:17  | 27.65  | 1000 |
| 521 | 188 | Oak Creek #8 |     | U1 | 9/6/1975   | 1:28  | 9/18/1975  | 10:14 | 296.76 | 620  |
| 521 | 188 | Oak Creek #8 | 236 | D1 | 9/22/1975  | 3:30  | 10/9/1975  | 12:00 | 416.5  | 340  |
| 521 | 188 | Oak Creek #8 | 159 | D1 | 9/30/1975  | 1:00  | 9/30/1975  | 6:30  | 5.5    | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 10/11/1975 | 4:30  | 10/11/1975 | 6:32  | 2.03   | 9320 |
| 521 | 188 | Oak Creek #8 | 122 | D1 | 10/22/1975 | 23:00 | 10/23/1975 | 8:40  | 9.66   | 1455 |
| 521 | 188 | Oak Creek #8 | 235 | D1 | 10/24/1975 | 3:30  | 10/25/1975 | 14:10 | 34.66  | 3999 |
| 521 | 188 | Oak Creek #8 | 138 | PD | 11/1/1975  | 0:15  | 11/4/1975  | 2:30  | 74.25  | 1455 |
| 521 | 188 | Oak Creek #8 | 230 | D1 | 11/6/1975  | 15:45 | 11/7/1975  | 5:35  | 13.83  | 3999 |
| 521 | 188 | Oak Creek #8 |     | U1 | 11/9/1975  | 0:38  | 11/9/1975  | 17:22 | 16.73  | 1999 |
| 521 | 188 | Oak Creek #8 |     | U1 | 11/15/1975 | 23:28 | 11/16/1975 | 4:48  | 5.33   | 8560 |
| 521 | 188 | Oak Creek #8 |     | U1 | 11/22/1975 | 6:30  | 11/23/1975 | 21:10 | 38.66  | 1000 |
| 521 | 188 | Oak Creek #8 | 238 | D1 | 11/24/1975 | 4:30  | 11/24/1975 | 7:30  | 3      | 1590 |
| 521 | 188 | Oak Creek #8 |     | U1 | 11/27/1975 | 22:04 | 11/29/1975 | 7:05  | 33.01  | 530  |
| 521 | 188 | Oak Creek #8 |     | U1 | 12/1/1975  | 18:34 | 12/3/1975  | 22:45 | 52.18  | 1005 |
| 521 | 188 | Oak Creek #8 | 238 | D1 | 12/11/1975 | 2:15  | 12/11/1975 | 6:00  | 3.75   | 3999 |
| 521 | 188 | Oak Creek #8 | 238 | D1 | 12/14/1975 | 17:45 | 12/14/1975 | 19:15 | 1.5    | 340  |
| 521 | 188 | Oak Creek #8 |     | NC | 12/16/1975 | 10:15 | 12/22/1975 | 8:45  | 142.5  | 3440 |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 12/17/1975 | 0:30  | 12/17/1975 | 6:15  | 5.75   | 340  |
| 521 | 188 | Oak Creek #8 | 238 | D1 | 12/17/1975 | 9:40  | 12/17/1975 | 16:30 | 6.83   | 340  |
| 521 | 188 | Oak Creek #8 | 188 | D1 | 12/17/1975 | 15:53 | 12/17/1975 | 18:40 | 2.78   | 340  |
| 521 | 188 | Oak Creek #8 | 228 | D1 | 12/17/1975 | 21:00 | 12/18/1975 | 10:40 | 13.66  | 340  |
| 521 | 188 | Oak Creek #8 | 248 | D1 | 12/18/1975 | 22:05 | 12/19/1975 | 6:40  | 8.58   | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 12/20/1975 | 23:58 | 12/21/1975 | 7:55  | 7.95   | 8560 |
| 521 | 188 | Oak Creek #8 | 258 | D1 | 12/22/1975 | 17:00 | 12/23/1975 | 19:00 | 26     | 3440 |
| 521 | 188 | Oak Creek #8 | 190 | PD | 12/24/1975 | 0:01  | 12/30/1975 | 2:00  | 145.98 | 340  |
| 521 | 188 | Oak Creek #8 | 229 | D1 | 1/1/1976   | 1:50  | 1/1/1976   | 5:00  | 3.16   | 340  |

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|     |     |              |     |    |           |       |           |       |        |      |
|-----|-----|--------------|-----|----|-----------|-------|-----------|-------|--------|------|
| 521 | 188 | Oak Creek #8 | 260 | D1 | 1/5/1976  | 13:40 | 1/9/1976  | 17:30 | 99.83  | 3440 |
| 521 | 188 | Oak Creek #8 | 235 | PD | 1/11/1976 | 0:30  | 1/11/1976 | 7:30  | 7      | 340  |
| 521 | 188 | Oak Creek #8 | 240 | PD | 1/12/1976 | 4:00  | 1/12/1976 | 9:30  | 5.5    | 340  |
| 521 | 188 | Oak Creek #8 | 244 | PD | 1/13/1976 | 0:45  | 1/17/1976 | 21:15 | 116.5  | 340  |
| 521 | 188 | Oak Creek #8 | 94  | D1 | 1/13/1976 | 7:05  | 1/13/1976 | 7:35  | 0.5    | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/13/1976 | 7:39  | 1/13/1976 | 7:58  | 0.31   | 1455 |
| 521 | 188 | Oak Creek #8 | 134 | D1 | 1/23/1976 | 4:00  | 1/23/1976 | 6:00  | 2      | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/29/1976 | 0:21  | 1/29/1976 | 23:48 | 23.45  | 1060 |
| 521 | 188 | Oak Creek #8 | 234 | PD | 1/30/1976 | 23:30 | 1/31/1976 | 4:30  | 5      | 340  |
| 521 | 188 | Oak Creek #8 | 216 | D1 | 2/5/1976  | 23:00 | 2/6/1976  | 4:30  | 5.5    | 340  |
| 521 | 188 | Oak Creek #8 |     | PO | 2/11/1976 | 23:15 | 2/28/1976 | 14:08 | 398.88 | 1999 |
| 521 | 188 | Oak Creek #8 | 224 | D1 | 2/28/1976 | 20:20 | 2/29/1976 | 6:00  | 9.66   | 3999 |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/13/1976 | 1:44  | 3/14/1976 | 11:11 | 33.45  | 1040 |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/19/1976 | 0:32  | 3/20/1976 | 17:30 | 40.96  | 1000 |
| 521 | 188 | Oak Creek #8 | 237 | D1 | 3/24/1976 | 16:00 | 3/24/1976 | 20:00 | 4      | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/26/1976 | 23:39 | 3/28/1976 | 6:45  | 31.1   | 1000 |
| 521 | 188 | Oak Creek #8 |     | MO | 3/26/1976 | 23:39 | 3/28/1976 | 6:45  | 31.1   | 1999 |
| 521 | 188 | Oak Creek #8 |     | U1 | 4/10/1976 | 0:02  | 4/11/1976 | 21:23 | 45.35  | 1455 |
| 521 | 188 | Oak Creek #8 | 119 | D1 | 4/13/1976 | 0:01  | 4/13/1976 | 5:00  | 4.98   | 1455 |
| 521 | 188 | Oak Creek #8 | 124 | D1 | 4/16/1976 | 0:30  | 4/17/1976 | 5:42  | 29.2   | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 4/16/1976 | 23:20 | 4/17/1976 | 5:42  | 6.36   | 8560 |
| 521 | 188 | Oak Creek #8 | 234 | D1 | 4/19/1976 | 11:00 | 4/19/1976 | 20:30 | 9.5    | 9270 |
| 521 | 188 | Oak Creek #8 | 134 | D1 | 4/21/1976 | 2:30  | 4/21/1976 | 5:00  | 2.5    | 1455 |
| 521 | 188 | Oak Creek #8 | 146 | PD | 4/23/1976 | 23:30 | 4/25/1976 | 6:00  | 30.5   | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 4/28/1976 | 21:58 | 4/29/1976 | 6:33  | 8.58   | 8560 |
| 521 | 188 | Oak Creek #8 | 123 | D1 | 5/6/1976  | 15:15 | 5/7/1976  | 11:00 | 19.75  | 1455 |
| 521 | 188 | Oak Creek #8 | 123 | D1 | 5/7/1976  | 14:20 | 5/7/1976  | 21:30 | 7.16   | 1455 |
| 521 | 188 | Oak Creek #8 | 133 | D1 | 5/12/1976 | 23:30 | 5/13/1976 | 1:45  | 2.25   | 4620 |
| 521 | 188 | Oak Creek #8 | 123 | D1 | 5/13/1976 | 1:45  | 5/13/1976 | 4:00  | 2.25   | 1455 |
| 521 | 188 | Oak Creek #8 | 123 | D1 | 5/16/1976 | 0:01  | 5/16/1976 | 19:50 | 19.81  | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 5/19/1976 | 23:28 | 5/20/1976 | 3:36  | 4.13   | 8560 |
| 521 | 188 | Oak Creek #8 | 226 | D1 | 5/20/1976 | 15:15 | 5/20/1976 | 19:30 | 4.25   | 340  |
| 521 | 188 | Oak Creek #8 | 123 | D1 | 5/21/1976 | 12:30 | 5/21/1976 | 23:45 | 11.25  | 1455 |
| 521 | 188 | Oak Creek #8 | 123 | D1 | 5/26/1976 | 21:30 | 5/27/1976 | 4:15  | 6.75   | 1455 |
| 521 | 188 | Oak Creek #8 | 133 | D1 | 5/28/1976 | 0:01  | 5/29/1976 | 10:30 | 34.48  | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 6/2/1976  | 23:56 | 6/4/1976  | 1:09  | 25.21  | 1000 |
| 521 | 188 | Oak Creek #8 | 128 | D1 | 6/4/1976  | 6:00  | 6/5/1976  | 11:10 | 29.16  | 3410 |
| 521 | 188 | Oak Creek #8 | 233 | D1 | 6/10/1976 | 12:33 | 6/10/1976 | 18:15 | 5.7    | 3999 |
| 521 | 188 | Oak Creek #8 |     | U1 | 6/12/1976 | 23:45 | 6/13/1976 | 18:41 | 18.93  | 8560 |
| 521 | 188 | Oak Creek #8 |     | MO | 6/12/1976 | 23:45 | 6/13/1976 | 18:41 | 18.93  | 1999 |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 6/29/1976 | 5:00  | 7/3/1976  | 22:15 | 113.25 | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 6/30/1976 | 23:18 | 7/1/1976  | 10:09 | 10.85  | 8560 |
| 521 | 188 | Oak Creek #8 |     | MO | 6/30/1976 | 23:18 | 7/1/1976  | 10:09 | 10.85  | 1999 |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 7/6/1976  | 9:00  | 7/6/1976  | 16:30 | 7.5    | 340  |
| 521 | 188 | Oak Creek #8 |     | MO | 7/18/1976 | 10:14 | 7/18/1976 | 15:31 | 5.28   | 8560 |
| 521 | 188 | Oak Creek #8 | 132 | D1 | 7/18/1976 | 15:31 | 7/18/1976 | 20:30 | 4.98   | 1455 |

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|     |     |              |     |    |            |       |            |       |        |      |
|-----|-----|--------------|-----|----|------------|-------|------------|-------|--------|------|
| 521 | 188 | Oak Creek #8 | 140 | D1 | 7/22/1976  | 18:00 | 7/23/1976  | 6:00  | 12     | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/24/1976  | 1:44  | 7/26/1976  | 3:01  | 49.28  | 1000 |
| 521 | 188 | Oak Creek #8 |     | MO | 7/24/1976  | 1:44  | 7/26/1976  | 3:01  | 49.28  | 1999 |
| 521 | 188 | Oak Creek #8 |     | MO | 7/31/1976  | 0:22  | 8/1/1976   | 17:18 | 40.93  | 1999 |
| 521 | 188 | Oak Creek #8 |     | MO | 7/31/1976  | 0:22  | 8/1/1976   | 17:18 | 40.93  | 1060 |
| 521 | 188 | Oak Creek #8 | 230 | D1 | 8/6/1976   | 1:00  | 8/6/1976   | 4:10  | 3.16   | 340  |
| 521 | 188 | Oak Creek #8 |     | MO | 8/7/1976   | 1:16  | 8/7/1976   | 21:34 | 20.29  | 1060 |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 8/7/1976   | 21:34 | 8/8/1976   | 18:15 | 20.68  | 1455 |
| 521 | 188 | Oak Creek #8 | 135 | D1 | 8/9/1976   | 0:01  | 8/9/1976   | 5:50  | 5.81   | 3410 |
| 521 | 188 | Oak Creek #8 | 227 | PD | 8/13/1976  | 23:10 | 8/16/1976  | 11:45 | 60.58  | 340  |
| 521 | 188 | Oak Creek #8 | 185 | D1 | 8/14/1976  | 0:30  | 8/16/1976  | 11:45 | 59.25  | 340  |
| 521 | 188 | Oak Creek #8 | 95  | PD | 8/15/1976  | 0:01  | 8/16/1976  | 6:15  | 30.23  | 1455 |
| 521 | 188 | Oak Creek #8 | 140 | PD | 8/16/1976  | 6:15  | 8/16/1976  | 10:00 | 3.75   | 1455 |
| 521 | 188 | Oak Creek #8 | 235 | PD | 8/17/1976  | 23:30 | 8/18/1976  | 4:45  | 5.25   | 340  |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 8/24/1976  | 23:30 | 8/26/1976  | 11:20 | 35.83  | 1455 |
| 521 | 188 | Oak Creek #8 | 232 | D1 | 8/31/1976  | 9:40  | 8/31/1976  | 10:45 | 1.08   | 340  |
| 521 | 188 | Oak Creek #8 |     | MO | 8/31/1976  | 23:08 | 9/1/1976   | 4:12  | 5.06   | 8560 |
| 521 | 188 | Oak Creek #8 | 105 | D1 | 9/7/1976   | 12:00 | 9/9/1976   | 6:00  | 42     | 3310 |
| 521 | 188 | Oak Creek #8 |     | MO | 9/10/1976  | 23:31 | 9/13/1976  | 0:14  | 48.71  | 1590 |
| 521 | 188 | Oak Creek #8 | 228 | D1 | 9/16/1976  | 11:45 | 9/16/1976  | 13:45 | 2      | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 9/17/1976  | 23:38 | 9/19/1976  | 21:47 | 46.15  | 1000 |
| 521 | 188 | Oak Creek #8 |     | MO | 9/17/1976  | 23:38 | 9/19/1976  | 21:47 | 46.15  | 1999 |
| 521 | 188 | Oak Creek #8 | 133 | D1 | 9/21/1976  | 22:15 | 9/22/1976  | 5:15  | 7      | 1455 |
| 521 | 188 | Oak Creek #8 | 128 | D1 | 9/24/1976  | 1:00  | 9/24/1976  | 4:15  | 3.25   | 1455 |
| 521 | 188 | Oak Creek #8 |     | MO | 9/24/1976  | 23:14 | 9/25/1976  | 5:12  | 5.96   | 8560 |
| 521 | 188 | Oak Creek #8 | 123 | D1 | 9/25/1976  | 5:12  | 9/26/1976  | 21:15 | 40.05  | 1455 |
| 521 | 188 | Oak Creek #8 | 223 | D1 | 9/27/1976  | 12:30 | 9/28/1976  | 3:00  | 14.5   | 340  |
| 521 | 188 | Oak Creek #8 | 73  | D1 | 9/27/1976  | 23:45 | 9/28/1976  | 3:00  | 3.25   | 1455 |
| 521 | 188 | Oak Creek #8 |     | MO | 9/28/1976  | 22:29 | 9/29/1976  | 4:15  | 5.76   | 8560 |
| 521 | 188 | Oak Creek #8 | 193 | D1 | 9/30/1976  | 10:01 | 9/30/1976  | 12:40 | 2.65   | 340  |
| 521 | 188 | Oak Creek #8 | 233 | D1 | 10/4/1976  | 21:00 | 10/5/1976  | 3:30  | 6.5    | 340  |
| 521 | 188 | Oak Creek #8 |     | MO | 10/5/1976  | 23:00 | 10/6/1976  | 6:15  | 7.25   | 340  |
| 521 | 188 | Oak Creek #8 | 223 | D1 | 10/6/1976  | 19:45 | 10/7/1976  | 4:00  | 8.25   | 340  |
| 521 | 188 | Oak Creek #8 | 163 | D1 | 10/6/1976  | 21:30 | 10/7/1976  | 4:00  | 6.5    | 340  |
| 521 | 188 | Oak Creek #8 | 223 | D1 | 10/7/1976  | 6:00  | 10/7/1976  | 20:30 | 14.5   | 340  |
| 521 | 188 | Oak Creek #8 | 163 | D1 | 10/9/1976  | 6:00  | 10/11/1976 | 11:45 | 53.75  | 1455 |
| 521 | 188 | Oak Creek #8 | 238 | D1 | 10/16/1976 | 20:00 | 10/17/1976 | 19:30 | 23.5   | 340  |
| 521 | 188 | Oak Creek #8 | 240 | PD | 10/18/1976 | 22:00 | 10/19/1976 | 3:30  | 5.5    | 350  |
| 521 | 188 | Oak Creek #8 | 191 | PD | 10/19/1976 | 3:00  | 11/11/1976 | 4:00  | 553    | 340  |
| 521 | 188 | Oak Creek #8 | 184 | D1 | 10/20/1976 | 7:30  | 11/11/1976 | 3:20  | 523.83 | 340  |
| 521 | 188 | Oak Creek #8 | 124 | D1 | 10/20/1976 | 14:30 | 10/20/1976 | 22:10 | 7.66   | 340  |
| 521 | 188 | Oak Creek #8 | 64  | D1 | 10/20/1976 | 14:30 | 10/20/1976 | 21:30 | 7      | 340  |
| 521 | 188 | Oak Creek #8 | 124 | D1 | 10/21/1976 | 7:30  | 10/21/1976 | 11:15 | 3.75   | 340  |
| 521 | 188 | Oak Creek #8 | 79  | D1 | 10/23/1976 | 1:40  | 10/25/1976 | 0:01  | 46.35  | 1455 |
| 521 | 188 | Oak Creek #8 | 125 | D1 | 11/1/1976  | 0:01  | 11/1/1976  | 3:30  | 3.48   | 340  |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 11/11/1976 | 22:15 | 11/12/1976 | 8:00  | 9.75   | 1455 |

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|     |     |              |     |    |            |       |            |       |         |      |
|-----|-----|--------------|-----|----|------------|-------|------------|-------|---------|------|
| 521 | 188 | Oak Creek #8 | 140 | D1 | 11/12/1976 | 22:15 | 11/13/1976 | 16:15 | 18      | 1455 |
| 521 | 188 | Oak Creek #8 | 129 | D1 | 11/14/1976 | 0:01  | 11/14/1976 | 14:00 | 13.98   | 1455 |
| 521 | 188 | Oak Creek #8 | 224 | PD | 11/22/1976 | 0:01  | 11/29/1976 | 8:10  | 176.15  | 340  |
| 521 | 188 | Oak Creek #8 | 129 | D1 | 12/3/1976  | 9:30  | 12/5/1976  | 18:50 | 57.33   | 1455 |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 12/10/1976 | 22:20 | 12/11/1976 | 7:55  | 9.58    | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 12/17/1976 | 19:50 | 12/19/1976 | 22:39 | 50.81   | 1005 |
| 521 | 188 | Oak Creek #8 | 229 | D1 | 12/24/1976 | 12:00 | 12/24/1976 | 15:00 | 3       | 30   |
| 521 | 188 | Oak Creek #8 |     | U1 | 12/24/1976 | 20:05 | 12/25/1976 | 5:46  | 9.68    | 8560 |
| 521 | 188 | Oak Creek #8 | 139 | D1 | 1/12/1977  | 16:15 | 1/13/1977  | 8:00  | 15.75   | 1455 |
| 521 | 188 | Oak Creek #8 | 139 | D1 | 1/14/1977  | 0:30  | 1/14/1977  | 6:25  | 5.91    | 340  |
| 521 | 188 | Oak Creek #8 | 139 | D1 | 1/18/1977  | 21:00 | 1/19/1977  | 10:00 | 13      | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/23/1977  | 0:20  | 1/23/1977  | 15:14 | 14.9    | 8560 |
| 521 | 188 | Oak Creek #8 | 224 | D1 | 2/1/1977   | 7:00  | 2/6/1977   | 11:15 | 124.25  | 340  |
| 521 | 188 | Oak Creek #8 | 139 | D1 | 2/3/1977   | 6:30  | 2/5/1977   | 1:30  | 43      | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 2/9/1977   | 1:30  | 2/10/1977  | 2:21  | 24.85   | 530  |
| 521 | 188 | Oak Creek #8 | 132 | D1 | 2/10/1977  | 2:21  | 2/12/1977  | 16:05 | 61.73   | 1455 |
| 521 | 188 | Oak Creek #8 | 214 | D1 | 2/15/1977  | 5:00  | 2/20/1977  | 5:45  | 120.75  | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/5/1977   | 23:46 | 3/6/1977   | 7:01  | 7.25    | 1999 |
| 521 | 188 | Oak Creek #8 | 234 | D1 | 3/9/1977   | 9:00  | 3/9/1977   | 17:00 | 8       | 340  |
| 521 | 188 | Oak Creek #8 | 254 | D1 | 3/10/1977  | 1:45  | 3/10/1977  | 4:00  | 2.25    | 340  |
| 521 | 188 | Oak Creek #8 |     | MO | 3/10/1977  | 22:26 | 3/11/1977  | 2:33  | 4.11    | 8560 |
| 521 | 188 | Oak Creek #8 | 164 | D1 | 3/15/1977  | 0:30  | 3/22/1977  | 6:00  | 173.5   | 1400 |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/26/1977  | 22:55 | 3/27/1977  | 19:22 | 20.45   | 1000 |
| 521 | 188 | Oak Creek #8 | 224 | D1 | 3/28/1977  | 7:00  | 3/28/1977  | 10:00 | 3       | 1400 |
| 521 | 188 | Oak Creek #8 |     | MO | 4/3/1977   | 0:01  | 4/3/1977   | 11:00 | 10.98   | 4830 |
| 521 | 188 | Oak Creek #8 | 164 | PD | 4/13/1977  | 0:45  | 4/13/1977  | 5:00  | 4.25    | 340  |
| 521 | 188 | Oak Creek #8 | 114 | D1 | 4/14/1977  | 13:50 | 4/15/1977  | 2:00  | 12.16   | 340  |
| 521 | 188 | Oak Creek #8 |     | PO | 4/16/1977  | 21:55 | 7/4/1977   | 21:30 | 1895.58 | 1999 |
| 521 | 188 | Oak Creek #8 | 137 | D1 | 7/5/1977   | 22:00 | 7/6/1977   | 4:45  | 6.75    | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/6/1977   | 5:52  | 7/6/1977   | 6:15  | 0.38    | 1400 |
| 521 | 188 | Oak Creek #8 | 137 | D1 | 7/6/1977   | 23:45 | 7/7/1977   | 5:15  | 5.5     | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/10/1977  | 0:18  | 7/11/1977  | 0:48  | 24.5    | 4550 |
| 521 | 188 | Oak Creek #8 | 239 | D1 | 7/13/1977  | 23:05 | 7/14/1977  | 10:45 | 11.66   | 340  |
| 521 | 188 | Oak Creek #8 | 232 | PD | 7/20/1977  | 20:30 | 7/21/1977  | 9:15  | 12.75   | 340  |
| 521 | 188 | Oak Creek #8 | 222 | PD | 7/21/1977  | 19:00 | 7/22/1977  | 9:30  | 14.5    | 340  |
| 521 | 188 | Oak Creek #8 | 227 | D1 | 7/23/1977  | 9:05  | 7/23/1977  | 14:10 | 5.08    | 340  |
| 521 | 188 | Oak Creek #8 | 207 | D1 | 7/28/1977  | 22:00 | 7/29/1977  | 3:00  | 5       | 340  |
| 521 | 188 | Oak Creek #8 | 242 | D1 | 7/29/1977  | 9:30  | 7/29/1977  | 14:45 | 5.25    | 340  |
| 521 | 188 | Oak Creek #8 | 232 | D1 | 7/29/1977  | 22:26 | 7/30/1977  | 4:00  | 5.56    | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/31/1977  | 14:43 | 8/2/1977   | 12:21 | 45.63   | 1000 |
| 521 | 188 | Oak Creek #8 |     | U1 | 8/4/1977   | 7:26  | 8/4/1977   | 8:00  | 0.56    | 1999 |
| 521 | 188 | Oak Creek #8 | 227 | D1 | 8/8/1977   | 5:00  | 8/8/1977   | 14:25 | 9.41    | 340  |
| 521 | 188 | Oak Creek #8 | 182 | D1 | 8/8/1977   | 6:30  | 8/8/1977   | 14:30 | 8       | 3999 |
| 521 | 188 | Oak Creek #8 | 212 | D1 | 8/9/1977   | 23:20 | 8/10/1977  | 3:50  | 4.5     | 3999 |
| 521 | 188 | Oak Creek #8 | 222 | D1 | 8/15/1977  | 4:30  | 8/15/1977  | 15:35 | 11.08   | 340  |
| 521 | 188 | Oak Creek #8 | 227 | D1 | 8/16/1977  | 23:10 | 8/17/1977  | 4:00  | 4.83    | 340  |

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|     |     |              |     |    |            |       |            |          |        |      |
|-----|-----|--------------|-----|----|------------|-------|------------|----------|--------|------|
| 521 | 188 | Oak Creek #8 |     | U1 | 8/19/1977  | 23:33 | 8/22/1977  | 0:28     | 48.91  | 1060 |
| 521 | 188 | Oak Creek #8 |     | U1 | 8/31/1977  | 14:51 | 9/3/1977   | 11:41    | 68.83  | 1040 |
| 521 | 188 | Oak Creek #8 |     | U1 | 9/5/1977   | 1:18  | 9/5/1977   | 20:35    | 19.28  | 1060 |
| 521 | 188 | Oak Creek #8 |     | U1 | 9/6/1977   | 3:03  | 9/7/1977   | 0:51     | 21.8   | 1060 |
| 521 | 188 | Oak Creek #8 | 235 | D1 | 9/7/1977   | 22:20 | 9/13/1977  | 21:00    | 142.66 | 340  |
| 521 | 188 | Oak Creek #8 | 228 | D1 | 9/20/1977  | 0:10  | 9/20/1977  | 6:35     | 6.41   | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 9/27/1977  | 3:50  | 9/27/1977  | 4:27     | 0.61   | 1455 |
| 521 | 188 | Oak Creek #8 | 233 | D1 | 9/27/1977  | 13:30 | 9/27/1977  | 15:35    | 2.08   | 340  |
| 521 | 188 | Oak Creek #8 | 258 | D1 | 10/4/1977  | 0:01  | 11/10/1977 | 14:15    | 902.23 | 340  |
| 521 | 188 | Oak Creek #8 | 188 | D1 | 10/5/1977  | 13:55 | 10/5/1977  | 22:30    | 8.58   | 340  |
| 521 | 188 | Oak Creek #8 | 158 | D1 | 10/14/1977 | 2:30  | 10/14/1977 | 10:20    | 7.83   | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 10/15/1977 | 1:17  | 10/17/1977 | 12:58    | 59.68  | 895  |
| 521 | 188 | Oak Creek #8 |     | U1 | 10/20/1977 | 8:50  | 10/20/1977 | 9:13     | 0.38   | 740  |
| 521 | 188 | Oak Creek #8 |     | U1 | 10/28/1977 | 23:50 | 10/30/1977 | 21:13    | 45.38  | 1100 |
| 521 | 188 | Oak Creek #8 | 159 | D1 | 11/7/1977  | 0:45  | 11/7/1977  | 9:15     | 8.5    | 1455 |
| 521 | 188 | Oak Creek #8 | 159 | D1 | 11/9/1977  | 20:35 | 11/10/1977 | 5:45     | 9.16   | 1455 |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 11/12/1977 | 8:35  | 11/13/1977 | 20:30    | 35.91  | 1455 |
| 521 | 188 | Oak Creek #8 | 120 | D1 | 11/15/1977 | 2:45  | 11/15/1977 | 5:30     | 2.75   | 895  |
| 521 | 188 | Oak Creek #8 | 210 | PD | 11/16/1977 | 5:30  | 11/22/1977 | 19:00    | 157.5  | 340  |
| 521 | 188 | Oak Creek #8 | 229 | D1 | 11/23/1977 | 5:00  | 11/23/1977 | 12:10    | 7.16   | 340  |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 12/2/1977  | 12:50 | 12/2/1977  | 15:45    | 2.91   | 340  |
| 521 | 188 | Oak Creek #8 | 229 | D1 | 12/6/1977  | 5:00  | 12/6/1977  | 21:30    | 16.5   | 340  |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 12/9/1977  | 12:30 | 12/9/1977  | 21:15    | 8.75   | 340  |
| 521 | 188 | Oak Creek #8 | 210 | D1 | 12/10/1977 | 0:01  | 12/10/1977 | 14:15    | 14.23  | 3999 |
| 521 | 188 | Oak Creek #8 | 250 | D1 | 12/20/1977 | 5:45  | 12/21/1977 | 0:15     | 18.5   | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 12/25/1977 | 21:12 | 12/27/1977 | 5:51     | 32.65  | 1305 |
| 521 | 188 | Oak Creek #8 |     | U1 | 12/29/1977 | 1:24  | 12/31/1977 | 24:00:00 | 70.6   | 1000 |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/1/1978   | 0:01  | 1/3/1978   | 11:08    | 59.11  | 1000 |
| 521 | 188 | Oak Creek #8 | 241 | D1 | 1/11/1978  | 5:30  | 1/11/1978  | 7:30     | 2      | 3999 |
| 521 | 188 | Oak Creek #8 | 241 | D1 | 1/12/1978  | 12:00 | 1/13/1978  | 2:00     | 14     | 340  |
| 521 | 188 | Oak Creek #8 | 191 | D1 | 1/12/1978  | 12:25 | 1/12/1978  | 12:50    | 0.41   | 340  |
| 521 | 188 | Oak Creek #8 | 241 | D1 | 1/14/1978  | 8:25  | 1/14/1978  | 14:15    | 5.83   | 340  |
| 521 | 188 | Oak Creek #8 | 256 | D1 | 1/16/1978  | 19:00 | 1/16/1978  | 22:10    | 3.16   | 340  |
| 521 | 188 | Oak Creek #8 | 241 | PD | 1/17/1978  | 15:00 | 1/17/1978  | 20:45    | 5.75   | 350  |
| 521 | 188 | Oak Creek #8 | 246 | D1 | 1/18/1978  | 23:30 | 1/19/1978  | 7:00     | 7.5    | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/21/1978  | 0:58  | 1/22/1978  | 1:42     | 24.73  | 1000 |
| 521 | 188 | Oak Creek #8 | 230 | D1 | 2/1/1978   | 21:30 | 2/2/1978   | 0:25     | 2.91   | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 2/7/1978   | 22:08 | 2/8/1978   | 5:45     | 7.61   | 380  |
| 521 | 188 | Oak Creek #8 | 221 | D1 | 2/15/1978  | 6:45  | 2/15/1978  | 9:05     | 2.33   | 1400 |
| 521 | 188 | Oak Creek #8 | 231 | D1 | 2/23/1978  | 21:15 | 2/24/1978  | 5:30     | 8.25   | 340  |
| 521 | 188 | Oak Creek #8 | 241 | D1 | 2/25/1978  | 7:15  | 2/25/1978  | 9:15     | 2      | 340  |
| 521 | 188 | Oak Creek #8 | 261 | D1 | 2/26/1978  | 13:15 | 2/27/1978  | 9:00     | 19.75  | 1005 |
| 521 | 188 | Oak Creek #8 | 246 | D1 | 2/28/1978  | 8:00  | 2/28/1978  | 10:20    | 2.33   | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 2/28/1978  | 20:34 | 3/2/1978   | 16:42    | 44.13  | 1000 |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/2/1978   | 19:17 | 3/2/1978   | 19:36    | 0.31   | 4309 |
| 521 | 188 | Oak Creek #8 | 160 | D1 | 3/3/1978   | 9:00  | 3/3/1978   | 19:00    | 10     | 340  |

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|     |     |              |     |    |           |       |           |       |        |      |
|-----|-----|--------------|-----|----|-----------|-------|-----------|-------|--------|------|
| 521 | 188 | Oak Creek #8 | 241 | D1 | 3/3/1978  | 23:45 | 3/6/1978  | 3:00  | 51.25  | 340  |
| 521 | 188 | Oak Creek #8 | 201 | D1 | 3/4/1978  | 18:00 | 3/4/1978  | 23:30 | 5.5    | 340  |
| 521 | 188 | Oak Creek #8 | 186 | D1 | 3/5/1978  | 8:00  | 3/5/1978  | 14:15 | 6.25   | 340  |
| 521 | 188 | Oak Creek #8 | 276 | D1 | 3/6/1978  | 3:00  | 3/11/1978 | 12:30 | 129.5  | 340  |
| 521 | 188 | Oak Creek #8 | 266 | D1 | 3/11/1978 | 12:30 | 3/14/1978 | 17:15 | 76.75  | 340  |
| 521 | 188 | Oak Creek #8 | 235 | D1 | 3/15/1978 | 7:30  | 3/15/1978 | 9:30  | 2      | 340  |
| 521 | 188 | Oak Creek #8 | 241 | D1 | 3/26/1978 | 6:00  | 3/28/1978 | 1:30  | 43.5   | 340  |
| 521 | 188 | Oak Creek #8 | 226 | D1 | 3/28/1978 | 1:30  | 3/28/1978 | 12:00 | 10.5   | 340  |
| 521 | 188 | Oak Creek #8 | 241 | D1 | 3/28/1978 | 12:00 | 3/29/1978 | 11:10 | 23.16  | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 4/1/1978  | 0:18  | 4/2/1978  | 11:02 | 34.73  | 1000 |
| 521 | 188 | Oak Creek #8 | 220 | D1 | 4/2/1978  | 21:00 | 4/26/1978 | 4:00  | 559    | 340  |
| 521 | 188 | Oak Creek #8 | 165 | D1 | 4/5/1978  | 15:00 | 4/6/1978  | 5:00  | 14     | 340  |
| 521 | 188 | Oak Creek #8 | 195 | D1 | 4/6/1978  | 10:30 | 4/7/1978  | 0:01  | 13.51  | 1999 |
| 521 | 188 | Oak Creek #8 | 130 | D1 | 4/11/1978 | 17:00 | 4/12/1978 | 5:00  | 12     | 3410 |
| 521 | 188 | Oak Creek #8 | 100 | D1 | 4/18/1978 | 21:30 | 4/19/1978 | 4:30  | 7      | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 4/24/1978 | 14:30 | 4/25/1978 | 13:09 | 22.65  | 1060 |
| 521 | 188 | Oak Creek #8 | 205 | D1 | 4/25/1978 | 16:00 | 4/26/1978 | 4:45  | 12.75  | 4899 |
| 521 | 188 | Oak Creek #8 |     | PO | 4/29/1978 | 5:17  | 5/29/1978 | 6:22  | 721.08 | 1999 |
| 521 | 188 | Oak Creek #8 |     | U1 | 5/29/1978 | 11:57 | 5/29/1978 | 14:39 | 2.7    | 1799 |
| 521 | 188 | Oak Creek #8 | 175 | D1 | 5/31/1978 | 23:00 | 6/1/1978  | 6:00  | 7      | 1455 |
| 521 | 188 | Oak Creek #8 | 275 | D1 | 6/1/1978  | 18:30 | 6/1/1978  | 21:20 | 2.83   | 340  |
| 521 | 188 | Oak Creek #8 | 145 | D1 | 6/1/1978  | 23:00 | 6/2/1978  | 5:00  | 6      | 1455 |
| 521 | 188 | Oak Creek #8 | 250 | D1 | 6/3/1978  | 7:00  | 6/20/1978 | 21:15 | 422.25 | 340  |
| 521 | 188 | Oak Creek #8 | 190 | D1 | 6/7/1978  | 21:45 | 6/9/1978  | 3:48  | 30.05  | 340  |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 6/9/1978  | 22:30 | 6/11/1978 | 8:40  | 34.16  | 1455 |
| 521 | 188 | Oak Creek #8 | 170 | D1 | 6/11/1978 | 8:40  | 6/11/1978 | 13:00 | 4.33   | 340  |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 6/11/1978 | 19:30 | 6/12/1978 | 10:30 | 15     | 1455 |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 6/12/1978 | 21:00 | 6/13/1978 | 8:30  | 11.5   | 1455 |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 6/13/1978 | 22:00 | 6/14/1978 | 7:15  | 9.25   | 1455 |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 6/15/1978 | 0:01  | 6/15/1978 | 4:30  | 4.48   | 1455 |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 6/17/1978 | 22:25 | 6/18/1978 | 12:30 | 14.08  | 1455 |
| 521 | 188 | Oak Creek #8 | 250 | D1 | 6/20/1978 | 22:00 | 6/21/1978 | 7:45  | 9.75   | 340  |
| 521 | 188 | Oak Creek #8 | 229 | D1 | 7/2/1978  | 9:45  | 7/2/1978  | 19:30 | 9.75   | 340  |
| 521 | 188 | Oak Creek #8 | 152 | D1 | 7/8/1978  | 6:00  | 7/9/1978  | 15:40 | 33.66  | 1455 |
| 521 | 188 | Oak Creek #8 | 149 | D1 | 7/11/1978 | 0:15  | 7/11/1978 | 10:30 | 10.25  | 1455 |
| 521 | 188 | Oak Creek #8 | 229 | D1 | 7/16/1978 | 20:01 | 7/17/1978 | 13:20 | 17.31  | 3999 |
| 521 | 188 | Oak Creek #8 | 152 | D1 | 7/23/1978 | 7:30  | 7/23/1978 | 15:35 | 8.08   | 1455 |
| 521 | 188 | Oak Creek #8 | 222 | D1 | 7/27/1978 | 15:00 | 7/28/1978 | 4:15  | 13.25  | 1850 |
| 521 | 188 | Oak Creek #8 | 229 | D1 | 7/28/1978 | 21:05 | 7/29/1978 | 14:40 | 17.58  | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/29/1978 | 23:22 | 7/30/1978 | 19:24 | 20.03  | 8560 |
| 521 | 188 | Oak Creek #8 |     | U1 | 8/1/1978  | 7:40  | 8/1/1978  | 9:38  | 1.96   | 860  |
| 521 | 188 | Oak Creek #8 |     | U1 | 8/1/1978  | 23:16 | 8/1/1978  | 23:50 | 0.56   | 4700 |
| 521 | 188 | Oak Creek #8 |     | U1 | 8/5/1978  | 0:50  | 8/6/1978  | 0:55  | 24.08  | 4700 |
| 521 | 188 | Oak Creek #8 | 259 | D1 | 8/16/1978 | 0:01  | 8/16/1978 | 12:00 | 11.98  | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 8/19/1978 | 23:18 | 8/20/1978 | 5:50  | 6.53   | 4700 |
| 521 | 188 | Oak Creek #8 |     | MO | 8/20/1978 | 7:45  | 8/20/1978 | 16:58 | 9.21   | 4830 |

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|     |     |              |     |    |            |       |            |       |        |      |
|-----|-----|--------------|-----|----|------------|-------|------------|-------|--------|------|
| 521 | 188 | Oak Creek #8 | 254 | D1 | 8/21/1978  | 0:01  | 9/11/1978  | 17:15 | 521.23 | 340  |
| 521 | 188 | Oak Creek #8 | 194 | D1 | 9/2/1978   | 0:30  | 9/2/1978   | 5:20  | 4.83   | 3999 |
| 521 | 188 | Oak Creek #8 | 194 | D1 | 9/2/1978   | 23:45 | 9/3/1978   | 10:45 | 11     | 3999 |
| 521 | 188 | Oak Creek #8 | 159 | D1 | 9/4/1978   | 5:00  | 9/4/1978   | 14:13 | 9.21   | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 9/4/1978   | 14:13 | 9/4/1978   | 22:54 | 8.68   | 8550 |
| 521 | 188 | Oak Creek #8 | 179 | D1 | 9/5/1978   | 8:30  | 9/5/1978   | 11:45 | 3.25   | 1400 |
| 521 | 188 | Oak Creek #8 | 259 | D1 | 9/13/1978  | 14:00 | 9/17/1978  | 6:10  | 88.16  | 340  |
| 521 | 188 | Oak Creek #8 | 164 | D1 | 9/19/1978  | 12:45 | 9/20/1978  | 0:51  | 12.1   | 1040 |
| 521 | 188 | Oak Creek #8 |     | U1 | 9/20/1978  | 0:51  | 9/21/1978  | 7:38  | 30.78  | 1060 |
| 521 | 188 | Oak Creek #8 | 134 | D1 | 9/21/1978  | 13:30 | 9/21/1978  | 19:00 | 5.5    | 1400 |
| 521 | 188 | Oak Creek #8 | 225 | D1 | 9/24/1978  | 3:30  | 9/24/1978  | 22:00 | 18.5   | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 9/25/1978  | 23:37 | 9/26/1978  | 9:51  | 10.23  | 1080 |
| 521 | 188 | Oak Creek #8 |     | U1 | 10/7/1978  | 1:50  | 10/8/1978  | 11:56 | 34.09  | 8560 |
| 521 | 188 | Oak Creek #8 |     | PO | 10/20/1978 | 1:15  | 10/30/1978 | 0:50  | 239.58 | 1999 |
| 521 | 188 | Oak Creek #8 |     | U1 | 10/30/1978 | 2:39  | 10/30/1978 | 7:36  | 4.94   | 1486 |
| 521 | 188 | Oak Creek #8 | 145 | D1 | 10/30/1978 | 7:36  | 10/30/1978 | 9:36  | 2      | 1486 |
| 521 | 188 | Oak Creek #8 | 99  | D1 | 10/30/1978 | 7:36  | 12/4/1978  | 10:45 | 867.15 | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 10/30/1978 | 9:36  | 11/3/1978  | 22:40 | 109.06 | 1486 |
| 521 | 188 | Oak Creek #8 | 94  | D1 | 11/3/1978  | 22:40 | 11/24/1978 | 2:45  | 484.08 | 1486 |
| 521 | 188 | Oak Creek #8 |     | U1 | 11/12/1978 | 2:48  | 11/13/1978 | 9:03  | 30.25  | 1486 |
| 521 | 188 | Oak Creek #8 |     | U1 | 11/18/1978 | 0:59  | 11/18/1978 | 22:04 | 21.08  | 1486 |
| 521 | 188 | Oak Creek #8 |     | U1 | 11/21/1978 | 23:15 | 11/24/1978 | 2:45  | 51.5   | 1486 |
| 521 | 188 | Oak Creek #8 |     | U1 | 11/29/1978 | 22:35 | 11/30/1978 | 6:04  | 7.48   | 8550 |
| 521 | 188 | Oak Creek #8 | 180 | D1 | 12/2/1978  | 20:30 | 12/3/1978  | 7:30  | 11     | 3999 |
| 521 | 188 | Oak Creek #8 | 250 | D1 | 12/11/1978 | 20:30 | 12/11/1978 | 23:45 | 3.25   | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 12/17/1978 | 6:53  | 12/18/1978 | 1:56  | 19.04  | 1080 |
| 521 | 188 | Oak Creek #8 | 235 | D1 | 1/4/1979   | 15:30 | 1/5/1979   | 0:20  | 8.83   | 340  |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 1/5/1979   | 11:40 | 1/5/1979   | 16:00 | 4.33   | 3999 |
| 521 | 188 | Oak Creek #8 | 230 | D1 | 1/6/1979   | 0:10  | 1/6/1979   | 6:15  | 6.08   | 3999 |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 1/6/1979   | 9:00  | 1/6/1979   | 13:50 | 4.83   | 3999 |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 1/12/1979  | 11:50 | 1/12/1979  | 15:40 | 3.83   | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/12/1979  | 16:45 | 1/14/1979  | 9:07  | 40.36  | 1000 |
| 521 | 188 | Oak Creek #8 | 200 | D1 | 1/17/1979  | 6:00  | 1/17/1979  | 23:59 | 17.98  | 290  |
| 521 | 188 | Oak Creek #8 | 220 | D1 | 1/18/1979  | 8:00  | 1/19/1979  | 1:00  | 17     | 3999 |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/22/1979  | 18:30 | 1/25/1979  | 9:05  | 62.58  | 1060 |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/30/1979  | 18:05 | 2/1/1979   | 10:22 | 40.28  | 1000 |
| 521 | 188 | Oak Creek #8 |     | U1 | 2/2/1979   | 10:22 | 2/3/1979   | 5:04  | 18.7   | 1080 |
| 521 | 188 | Oak Creek #8 |     | U1 | 2/5/1979   | 17:25 | 2/7/1979   | 1:31  | 32.09  | 1060 |
| 521 | 188 | Oak Creek #8 |     | U1 | 2/8/1979   | 14:37 | 2/12/1979  | 9:00  | 90.38  | 1000 |
| 521 | 188 | Oak Creek #8 | 186 | D1 | 2/12/1979  | 9:00  | 2/15/1979  | 9:10  | 72.16  | 1400 |
| 521 | 188 | Oak Creek #8 | 270 | D1 | 2/20/1979  | 11:00 | 2/24/1979  | 4:00  | 89     | 3440 |
| 521 | 188 | Oak Creek #8 | 225 | D1 | 2/21/1979  | 17:00 | 2/22/1979  | 3:30  | 10.5   | 3999 |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 2/24/1979  | 4:00  | 3/12/1979  | 13:00 | 393    | 3999 |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 2/25/1979  | 7:30  | 2/25/1979  | 14:30 | 7      | 1455 |
| 521 | 188 | Oak Creek #8 | 120 | D1 | 2/27/1979  | 13:00 | 2/28/1979  | 3:00  | 14     | 8325 |
| 521 | 188 | Oak Creek #8 | 180 | D1 | 3/2/1979   | 8:15  | 3/2/1979   | 13:00 | 4.75   | 3440 |

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|     |     |              |     |    |            |       |            |       |         |      |
|-----|-----|--------------|-----|----|------------|-------|------------|-------|---------|------|
| 521 | 188 | Oak Creek #8 | 180 | D1 | 3/3/1979   | 4:00  | 3/5/1979   | 5:45  | 49.75   | 3999 |
| 521 | 188 | Oak Creek #8 | 60  | D1 | 3/3/1979   | 7:30  | 3/4/1979   | 12:50 | 29.33   | 920  |
| 521 | 188 | Oak Creek #8 | 180 | D1 | 3/6/1979   | 23:30 | 3/7/1979   | 6:30  | 7       | 3999 |
| 521 | 188 | Oak Creek #8 | 95  | D1 | 3/9/1979   | 6:30  | 3/10/1979  | 0:42  | 18.2    | 4269 |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/10/1979  | 0:42  | 3/11/1979  | 19:08 | 42.43   | 4269 |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 3/18/1979  | 0:01  | 3/18/1979  | 22:28 | 22.45   | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/18/1979  | 13:28 | 3/18/1979  | 22:28 | 9       | 895  |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 3/20/1979  | 14:30 | 3/22/1979  | 3:00  | 36.5    | 340  |
| 521 | 188 | Oak Creek #8 | 270 | D1 | 3/22/1979  | 3:00  | 3/27/1979  | 13:30 | 130.5   | 3440 |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 3/27/1979  | 13:30 | 3/27/1979  | 18:00 | 4.5     | 920  |
| 521 | 188 | Oak Creek #8 | 90  | D1 | 3/27/1979  | 21:00 | 3/28/1979  | 2:00  | 5       | 920  |
| 521 | 188 | Oak Creek #8 | 261 | D1 | 3/30/1979  | 0:15  | 3/31/1979  | 0:15  | 24      | 3999 |
| 521 | 188 | Oak Creek #8 | 261 | D1 | 4/3/1979   | 23:30 | 4/4/1979   | 14:10 | 14.66   | 3999 |
| 521 | 188 | Oak Creek #8 |     | U1 | 4/7/1979   | 5:03  | 4/10/1979  | 14:44 | 81.68   | 1040 |
| 521 | 188 | Oak Creek #8 | 236 | D1 | 4/12/1979  | 23:45 | 4/13/1979  | 6:30  | 6.75    | 4899 |
| 521 | 188 | Oak Creek #8 |     | PO | 4/21/1979  | 5:15  | 6/14/1979  | 10:10 | 1300.91 | 1999 |
| 521 | 188 | Oak Creek #8 | 245 | D1 | 6/14/1979  | 10:10 | 6/17/1979  | 2:30  | 64.33   | 340  |
| 521 | 188 | Oak Creek #8 | 155 | D1 | 6/15/1979  | 17:45 | 6/16/1979  | 0:05  | 6.33    | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 6/21/1979  | 23:10 | 6/21/1979  | 23:32 | 0.36    | 9900 |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/18/1979  | 5:16  | 7/19/1979  | 15:28 | 34.2    | 1799 |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/31/1979  | 17:37 | 8/1/1979   | 5:37  | 12      | 1100 |
| 521 | 188 | Oak Creek #8 | 254 | D1 | 8/1/1979   | 16:15 | 8/2/1979   | 4:30  | 12.25   | 340  |
| 521 | 188 | Oak Creek #8 | 139 | D1 | 8/16/1979  | 8:45  | 8/16/1979  | 15:35 | 6.83    | 8325 |
| 521 | 188 | Oak Creek #8 |     | U1 | 8/16/1979  | 15:35 | 8/17/1979  | 8:17  | 16.7    | 8325 |
| 521 | 188 | Oak Creek #8 |     | U1 | 8/27/1979  | 15:38 | 8/30/1979  | 8:48  | 65.16   | 920  |
| 521 | 188 | Oak Creek #8 |     | U1 | 9/4/1979   | 18:10 | 9/6/1979   | 8:00  | 37.83   | 1060 |
| 521 | 188 | Oak Creek #8 |     | U1 | 9/6/1979   | 8:00  | 9/10/1979  | 15:59 | 103.98  | 1455 |
| 521 | 188 | Oak Creek #8 | 244 | D1 | 9/13/1979  | 11:50 | 9/13/1979  | 21:33 | 9.71    | 3999 |
| 521 | 188 | Oak Creek #8 | 169 | D1 | 9/14/1979  | 5:00  | 9/16/1979  | 12:15 | 55.25   | 1455 |
| 521 | 188 | Oak Creek #8 | 239 | PD | 9/16/1979  | 12:15 | 9/16/1979  | 19:00 | 6.75    | 740  |
| 521 | 188 | Oak Creek #8 |     | U1 | 9/21/1979  | 23:48 | 9/24/1979  | 4:25  | 52.61   | 1000 |
| 521 | 188 | Oak Creek #8 | 269 | D1 | 9/24/1979  | 10:30 | 10/20/1979 | 5:15  | 618.75  | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 9/28/1979  | 22:44 | 10/1/1979  | 4:03  | 53.31   | 1000 |
| 521 | 188 | Oak Creek #8 | 195 | D1 | 10/16/1979 | 17:05 | 10/16/1979 | 20:51 | 3.76    | 340  |
| 521 | 188 | Oak Creek #8 | 200 | D1 | 10/17/1979 | 8:50  | 10/18/1979 | 0:01  | 15.18   | 340  |
| 521 | 188 | Oak Creek #8 | 250 | D1 | 10/22/1979 | 7:48  | 10/23/1979 | 5:55  | 22.11   | 340  |
| 521 | 188 | Oak Creek #8 | 175 | D1 | 10/22/1979 | 21:00 | 10/23/1979 | 5:55  | 8.91    | 3999 |
| 521 | 188 | Oak Creek #8 | 230 | D1 | 10/31/1979 | 12:00 | 10/31/1979 | 12:45 | 0.75    | 340  |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 11/2/1979  | 22:00 | 11/3/1979  | 19:30 | 21.5    | 340  |
| 521 | 188 | Oak Creek #8 | 220 | D1 | 11/6/1979  | 7:30  | 12/29/1979 | 8:45  | 1297.25 | 340  |
| 521 | 188 | Oak Creek #8 | 170 | D1 | 11/11/1979 | 3:00  | 11/11/1979 | 15:40 | 12.66   | 340  |
| 521 | 188 | Oak Creek #8 | 150 | D1 | 11/18/1979 | 7:25  | 11/18/1979 | 14:15 | 6.83    | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 11/22/1979 | 5:08  | 11/26/1979 | 2:20  | 93.2    | 1060 |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 11/25/1979 | 12:00 | 11/27/1979 | 5:50  | 41.83   | 1455 |
| 521 | 188 | Oak Creek #8 | 141 | D1 | 12/1/1979  | 3:00  | 12/2/1979  | 7:00  | 28      | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 12/1/1979  | 21:23 | 12/1/1979  | 21:43 | 0.33    | 1799 |

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|     |     |              |     |    |            |          |            |          |        |      |
|-----|-----|--------------|-----|----|------------|----------|------------|----------|--------|------|
| 521 | 188 | Oak Creek #8 | 46  | D1 | 12/2/1979  | 6:30     | 12/2/1979  | 14:00    | 7.5    | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 12/14/1979 | 0:25     | 12/25/1979 | 13:09    | 276.73 | 1040 |
| 521 | 188 | Oak Creek #8 | 216 | D1 | 12/29/1979 | 8:45     | 12/29/1979 | 21:30    | 12.75  | 340  |
| 521 | 188 | Oak Creek #8 | 210 | D1 | 12/29/1979 | 21:30    | 12/31/1979 | 24:00:00 | 50.5   | 340  |
| 521 | 188 | Oak Creek #8 | 226 | D1 | 1/1/1980   | 11:15    | 1/1/1980   | 16:55    | 5.66   | 340  |
| 521 | 188 | Oak Creek #8 | 210 | D1 | 1/1/1980   | 16:55    | 1/31/1980  | 7:02     | 710.11 | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/5/1980   | 22:53    | 1/7/1980   | 6:26     | 31.55  | 1000 |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/19/1980  | 22:52    | 1/21/1980  | 0:38     | 25.76  | 1000 |
| 521 | 188 | Oak Creek #8 | 115 | D1 | 1/29/1980  | 4:50     | 1/29/1980  | 22:19    | 17.48  | 1000 |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/29/1980  | 22:19    | 1/31/1980  | 7:27     | 33.13  | 1000 |
| 521 | 188 | Oak Creek #8 | 225 | D1 | 1/31/1980  | 17:00    | 1/31/1980  | 22:00    | 5      | 340  |
| 521 | 188 | Oak Creek #8 | 235 | PD | 2/2/1980   | 7:00     | 2/28/1980  | 1:00     | 618    | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 2/2/1980   | 23:40    | 2/3/1980   | 17:56    | 18.26  | 1799 |
| 521 | 188 | Oak Creek #8 |     | U1 | 2/9/1980   | 0:48     | 2/11/1980  | 7:25     | 54.61  | 1000 |
| 521 | 188 | Oak Creek #8 | 175 | D1 | 2/20/1980  | 24:00:00 | 2/21/1980  | 2:55     | 2.91   | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 2/22/1980  | 22:17    | 2/25/1980  | 9:48     | 59.51  | 1000 |
| 521 | 188 | Oak Creek #8 | 190 | D1 | 2/27/1980  | 14:00    | 2/28/1980  | 2:00     | 12     | 1850 |
| 521 | 188 | Oak Creek #8 | 251 | D1 | 2/28/1980  | 2:00     | 2/28/1980  | 7:30     | 5.5    | 1850 |
| 521 | 188 | Oak Creek #8 | 218 | D1 | 2/28/1980  | 7:30     | 2/28/1980  | 11:00    | 3.5    | 1850 |
| 521 | 188 | Oak Creek #8 | 230 | D1 | 2/28/1980  | 11:00    | 2/29/1980  | 6:00     | 19     | 1850 |
| 521 | 188 | Oak Creek #8 | 230 | D1 | 2/29/1980  | 8:50     | 3/1/1980   | 14:00    | 5.16   | 1850 |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/1/1980   | 21:42    | 3/2/1980   | 7:10     | 9.46   | 8560 |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/5/1980   | 1:47     | 3/6/1980   | 8:57     | 31.16  | 1060 |
| 521 | 188 | Oak Creek #8 | 230 | D1 | 3/10/1980  | 10:00    | 3/11/1980  | 7:00     | 21     | 1490 |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 3/11/1980  | 7:00     | 4/2/1980   | 3:00     | 524    | 1490 |
| 521 | 188 | Oak Creek #8 | 190 | D1 | 3/13/1980  | 1:30     | 3/13/1980  | 5:55     | 4.41   | 340  |
| 521 | 188 | Oak Creek #8 | 175 | D1 | 3/14/1980  | 8:20     | 3/14/1980  | 9:20     | 1      | 3999 |
| 521 | 188 | Oak Creek #8 | 225 | D1 | 3/14/1980  | 9:20     | 3/14/1980  | 16:15    | 6.91   | 3999 |
| 521 | 188 | Oak Creek #8 | 200 | PD | 3/14/1980  | 23:30    | 3/15/1980  | 3:00     | 3.5    | 340  |
| 521 | 188 | Oak Creek #8 | 200 | D1 | 3/19/1980  | 23:15    | 3/20/1980  | 6:00     | 6.75   | 340  |
| 521 | 188 | Oak Creek #8 | 210 | D1 | 3/24/1980  | 14:05    | 3/24/1980  | 22:15    | 8.16   | 340  |
| 521 | 188 | Oak Creek #8 | 225 | D1 | 4/2/1980   | 3:00     | 4/3/1980   | 23:44    | 44.73  | 1490 |
| 521 | 188 | Oak Creek #8 |     | MO | 4/3/1980   | 23:44    | 4/13/1980  | 12:47    | 229.05 | 1486 |
| 521 | 188 | Oak Creek #8 |     | U1 | 4/19/1980  | 0:49     | 4/19/1980  | 7:22     | 6.55   | 3110 |
| 521 | 188 | Oak Creek #8 | 186 | D1 | 4/20/1980  | 8:00     | 4/20/1980  | 13:05    | 5.08   | 1455 |
| 521 | 188 | Oak Creek #8 | 266 | D1 | 4/21/1980  | 16:45    | 4/22/1980  | 7:00     | 14.25  | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 4/28/1980  | 16:06    | 4/30/1980  | 3:53     | 35.78  | 1060 |
| 521 | 188 | Oak Creek #8 |     | U1 | 4/30/1980  | 6:23     | 4/30/1980  | 6:45     | 0.36   | 9900 |
| 521 | 188 | Oak Creek #8 |     | U1 | 5/5/1980   | 0:42     | 5/7/1980   | 10:35    | 57.88  | 1040 |
| 521 | 188 | Oak Creek #8 |     | U1 | 5/7/1980   | 13:36    | 5/8/1980   | 23:42    | 34.09  | 1060 |
| 521 | 188 | Oak Creek #8 | 220 | D1 | 5/24/1980  | 13:00    | 5/24/1980  | 15:40    | 2.66   | 250  |
| 521 | 188 | Oak Creek #8 |     | U1 | 5/25/1980  | 3:00     | 5/26/1980  | 17:41    | 38.68  | 3440 |
| 521 | 188 | Oak Creek #8 | 225 | D1 | 5/30/1980  | 15:30    | 5/30/1980  | 18:04    | 2.56   | 340  |
| 521 | 188 | Oak Creek #8 | 195 | PD | 6/4/1980   | 0:20     | 6/4/1980   | 4:30     | 4.16   | 3410 |
| 521 | 188 | Oak Creek #8 |     | U1 | 6/7/1980   | 23:46    | 6/8/1980   | 6:17     | 6.51   | 8325 |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 6/9/1980   | 13:45    | 6/29/1980  | 10:05    | 476.33 | 340  |

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|     |     |              |     |    |            |       |            |       |         |      |
|-----|-----|--------------|-----|----|------------|-------|------------|-------|---------|------|
| 521 | 188 | Oak Creek #8 | 175 | D1 | 6/14/1980  | 18:20 | 6/14/1980  | 20:30 | 2.16    | 340  |
| 521 | 188 | Oak Creek #8 | 185 | D1 | 6/20/1980  | 23:15 | 6/21/1980  | 20:10 | 20.91   | 740  |
| 521 | 188 | Oak Creek #8 | 175 | D1 | 6/26/1980  | 0:15  | 6/27/1980  | 3:45  | 27.5    | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 6/30/1980  | 14:11 | 7/2/1980   | 3:43  | 37.53   | 1060 |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/2/1980   | 3:47  | 7/2/1980   | 6:01  | 2.23    | 4750 |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/13/1980  | 0:46  | 7/14/1980  | 5:16  | 28.5    | 1060 |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/15/1980  | 15:16 | 7/17/1980  | 23:41 | 56.41   | 1040 |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/19/1980  | 8:28  | 7/21/1980  | 0:14  | 39.76   | 1060 |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/22/1980  | 18:35 | 7/25/1980  | 1:23  | 54.8    | 1060 |
| 521 | 188 | Oak Creek #8 | 124 | D1 | 8/1/1980   | 5:45  | 8/1/1980   | 8:45  | 3       | 1100 |
| 521 | 188 | Oak Creek #8 |     | U1 | 8/1/1980   | 16:50 | 8/4/1980   | 7:05  | 62.25   | 1060 |
| 521 | 188 | Oak Creek #8 | 234 | D1 | 8/5/1980   | 10:09 | 8/6/1980   | 16:45 | 30.6    | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 8/10/1980  | 23:49 | 8/13/1980  | 4:29  | 52.66   | 1060 |
| 521 | 188 | Oak Creek #8 |     | U1 | 8/25/1980  | 23:40 | 8/28/1980  | 4:15  | 52.58   | 1000 |
| 521 | 188 | Oak Creek #8 |     | PO | 8/30/1980  | 4:19  | 10/18/1980 | 0:53  | 1172.56 | 1999 |
| 521 | 188 | Oak Creek #8 | 220 | D1 | 10/18/1980 | 0:53  | 10/19/1980 | 13:00 | 36.11   | 340  |
| 521 | 188 | Oak Creek #8 | 175 | D1 | 10/19/1980 | 5:10  | 10/19/1980 | 21:00 | 15.83   | 340  |
| 521 | 188 | Oak Creek #8 | 200 | D1 | 10/20/1980 | 8:00  | 10/21/1980 | 2:45  | 18.75   | 8560 |
| 521 | 188 | Oak Creek #8 |     | U1 | 10/21/1980 | 17:41 | 10/23/1980 | 5:54  | 36.21   | 1000 |
| 521 | 188 | Oak Creek #8 | 225 | D1 | 10/30/1980 | 14:45 | 10/30/1980 | 19:34 | 4.81    | 340  |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 11/1/1980  | 0:30  | 11/1/1980  | 10:45 | 10.25   | 340  |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 11/15/1980 | 14:00 | 11/15/1980 | 19:45 | 5.75    | 3999 |
| 521 | 188 | Oak Creek #8 | 260 | D1 | 11/28/1980 | 13:00 | 12/3/1980  | 23:00 | 154     | 3440 |
| 521 | 188 | Oak Creek #8 | 121 | D1 | 12/3/1980  | 4:15  | 12/3/1980  | 10:48 | 6.55    | 1850 |
| 521 | 188 | Oak Creek #8 |     | U1 | 12/3/1980  | 10:48 | 12/4/1980  | 4:48  | 18      | 1850 |
| 521 | 188 | Oak Creek #8 | 236 | D1 | 12/7/1980  | 7:00  | 12/7/1980  | 9:30  | 2.5     | 3999 |
| 521 | 188 | Oak Creek #8 | 210 | D1 | 12/9/1980  | 7:30  | 12/9/1980  | 8:30  | 1       | 1850 |
| 521 | 188 | Oak Creek #8 | 220 | D1 | 12/9/1980  | 8:30  | 12/9/1980  | 11:40 | 3.16    | 1850 |
| 521 | 188 | Oak Creek #8 |     | U1 | 12/11/1980 | 0:14  | 12/12/1980 | 6:12  | 29.96   | 1400 |
| 521 | 188 | Oak Creek #8 |     | MO | 12/14/1980 | 2:10  | 12/14/1980 | 2:36  | 0.43    | 4309 |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 12/14/1980 | 4:45  | 12/14/1980 | 11:55 | 7.16    | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 12/15/1980 | 20:17 | 12/17/1980 | 0:28  | 28.18   | 1040 |
| 521 | 188 | Oak Creek #8 | 266 | D1 | 12/28/1980 | 16:10 | 12/29/1980 | 5:00  | 12.83   | 5890 |
| 521 | 188 | Oak Creek #8 | 270 | D1 | 12/29/1980 | 9:45  | 12/30/1980 | 19:00 | 33.25   | 3999 |
| 521 | 188 | Oak Creek #8 | 260 | D1 | 1/4/1981   | 23:00 | 1/7/1981   | 5:00  | 54      | 3440 |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/9/1981   | 23:20 | 1/11/1981  | 12:38 | 37.3    | 1000 |
| 521 | 188 | Oak Creek #8 | 260 | D1 | 1/11/1981  | 12:38 | 1/13/1981  | 18:39 | 54.01   | 3441 |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/13/1981  | 18:39 | 1/16/1981  | 3:08  | 56.48   | 1040 |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/18/1981  | 22:16 | 1/21/1981  | 20:38 | 70.36   | 1040 |
| 521 | 188 | Oak Creek #8 | 246 | D1 | 1/22/1981  | 7:10  | 1/22/1981  | 10:00 | 2.83    | 3410 |
| 521 | 188 | Oak Creek #8 | 255 | D1 | 1/23/1981  | 7:50  | 1/24/1981  | 16:00 | 32.16   | 3440 |
| 521 | 188 | Oak Creek #8 | 185 | D1 | 1/24/1981  | 9:30  | 1/24/1981  | 12:20 | 2.83    | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 1/27/1981  | 16:26 | 1/31/1981  | 5:10  | 84.73   | 1400 |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 2/2/1981   | 5:00  | 2/2/1981   | 21:30 | 16.5    | 3999 |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 2/7/1981   | 21:30 | 2/8/1981   | 6:45  | 9.25    | 3999 |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 2/8/1981   | 6:45  | 2/8/1981   | 12:25 | 5.66    | 1850 |

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|     |     |              |     |    |           |       |           |       |        |      |
|-----|-----|--------------|-----|----|-----------|-------|-----------|-------|--------|------|
| 521 | 188 | Oak Creek #8 | 107 | D1 | 2/10/1981 | 0:20  | 2/10/1981 | 5:25  | 5.08   | 3310 |
| 521 | 188 | Oak Creek #8 | 200 | D1 | 2/12/1981 | 18:30 | 2/12/1981 | 20:00 | 1.5    | 340  |
| 521 | 188 | Oak Creek #8 | 250 | D1 | 2/17/1981 | 13:00 | 2/23/1981 | 7:00  | 138    | 340  |
| 521 | 188 | Oak Creek #8 | 270 | D1 | 2/23/1981 | 7:00  | 2/23/1981 | 9:00  | 2      | 340  |
| 521 | 188 | Oak Creek #8 | 261 | D1 | 2/23/1981 | 9:00  | 3/8/1981  | 6:00  | 309    | 340  |
| 521 | 188 | Oak Creek #8 | 221 | D1 | 2/27/1981 | 12:00 | 2/27/1981 | 12:30 | 0.5    | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/7/1981  | 2:41  | 3/8/1981  | 6:00  | 27.31  | 8560 |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/8/1981  | 6:00  | 3/10/1981 | 1:25  | 43.41  | 1455 |
| 521 | 188 | Oak Creek #8 | 140 | D1 | 3/10/1981 | 1:25  | 3/10/1981 | 9:00  | 7.58   | 3410 |
| 521 | 188 | Oak Creek #8 | 136 | D1 | 3/10/1981 | 9:00  | 3/13/1981 | 12:45 | 75.75  | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/12/1981 | 8:00  | 3/12/1981 | 18:37 | 10.61  | 3999 |
| 521 | 188 | Oak Creek #8 | 235 | PD | 3/13/1981 | 12:45 | 3/14/1981 | 23:26 | 34.68  | 340  |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/14/1981 | 23:26 | 3/15/1981 | 21:38 | 22.2   | 1000 |
| 521 | 188 | Oak Creek #8 | 146 | D1 | 3/17/1981 | 0:45  | 3/17/1981 | 5:45  | 5      | 1455 |
| 521 | 188 | Oak Creek #8 | 230 | PD | 3/25/1981 | 4:00  | 4/10/1981 | 23:00 | 403    | 340  |
| 521 | 188 | Oak Creek #8 | 180 | D1 | 3/30/1981 | 1:15  | 4/8/1981  | 8:30  | 223.25 | 3411 |
| 521 | 188 | Oak Creek #8 |     | U1 | 3/30/1981 | 22:38 | 4/1/1981  | 12:57 | 38.31  | 1040 |
| 521 | 188 | Oak Creek #8 | 180 | D1 | 4/9/1981  | 12:00 | 4/9/1981  | 12:30 | 0.5    | 340  |
| 521 | 188 | Oak Creek #8 | 70  | D1 | 4/9/1981  | 15:44 | 4/9/1981  | 22:00 | 6.26   | 340  |
| 521 | 188 | Oak Creek #8 | 180 | PD | 4/10/1981 | 23:00 | 4/12/1981 | 1:50  | 26.83  | 340  |
| 521 | 188 | Oak Creek #8 | 230 | PD | 4/12/1981 | 1:50  | 4/15/1981 | 8:00  | 78.16  | 340  |
| 521 | 188 | Oak Creek #8 | 225 | PD | 4/15/1981 | 8:00  | 4/16/1981 | 4:30  | 20.5   | 340  |
| 521 | 188 | Oak Creek #8 | 250 | PD | 4/16/1981 | 4:30  | 4/29/1981 | 4:00  | 311.5  | 340  |
| 521 | 188 | Oak Creek #8 | 200 | D1 | 4/27/1981 | 23:45 | 4/28/1981 | 3:50  | 4.08   | 340  |
| 521 | 188 | Oak Creek #8 | 110 | D1 | 5/5/1981  | 23:59 | 5/6/1981  | 6:00  | 6.01   | 1100 |
| 521 | 188 | Oak Creek #8 | 230 | PD | 5/6/1981  | 23:30 | 5/7/1981  | 4:25  | 4.91   | 3999 |
| 521 | 188 | Oak Creek #8 | 135 | PD | 5/8/1981  | 0:01  | 5/8/1981  | 5:30  | 5.48   | 1100 |
| 521 | 188 | Oak Creek #8 | 100 | D1 | 5/10/1981 | 0:01  | 5/10/1981 | 7:00  | 6.98   | 1100 |
| 521 | 188 | Oak Creek #8 | 240 | D1 | 5/10/1981 | 22:10 | 5/11/1981 | 0:45  | 2.58   | 340  |
| 521 | 188 | Oak Creek #8 | 150 | PD | 5/16/1981 | 5:00  | 5/16/1981 | 23:45 | 18.75  | 1455 |
| 521 | 188 | Oak Creek #8 |     | U1 | 5/18/1981 | 9:47  | 5/21/1981 | 4:01  | 66.23  | 1040 |
| 521 | 188 | Oak Creek #8 | 235 | D1 | 6/3/1981  | 13:15 | 6/4/1981  | 0:50  | 11.58  | 340  |
| 521 | 188 | Oak Creek #8 | 235 | PD | 6/6/1981  | 23:49 | 6/7/1981  | 9:45  | 9.93   | 340  |
| 521 | 188 | Oak Creek #8 |     | MO | 6/6/1981  | 23:49 | 6/7/1981  | 9:45  | 9.93   | 8580 |
| 521 | 188 | Oak Creek #8 | 250 | D1 | 6/7/1981  | 9:45  | 6/11/1981 | 3:00  | 89.25  | 7930 |
| 521 | 188 | Oak Creek #8 | 275 | D1 | 6/11/1981 | 3:00  | 6/15/1981 | 18:00 | 111    | 7930 |
| 521 | 188 | Oak Creek #8 | 270 | D1 | 6/15/1981 | 18:00 | 6/19/1981 | 22:34 | 100.56 | 7930 |
| 521 | 188 | Oak Creek #8 |     | U1 | 6/19/1981 | 22:34 | 6/21/1981 | 2:31  | 27.95  | 1040 |
| 521 | 188 | Oak Creek #8 | 270 | D1 | 6/21/1981 | 2:31  | 6/22/1981 | 8:40  | 30.15  | 7930 |
| 521 | 188 | Oak Creek #8 |     | U1 | 6/21/1981 | 3:31  | 6/21/1981 | 7:31  | 4      | 380  |
| 521 | 188 | Oak Creek #8 |     | U1 | 6/29/1981 | 23:15 | 7/1/1981  | 7:00  | 31.75  | 1060 |
| 521 | 188 | Oak Creek #8 | 274 | D1 | 7/1/1981  | 7:00  | 7/15/1981 | 11:00 | 340    | 1490 |
| 521 | 188 | Oak Creek #8 | 249 | D1 | 7/13/1981 | 12:00 | 7/13/1981 | 14:00 | 2      | 1799 |
| 521 | 188 | Oak Creek #8 | 209 | D1 | 7/15/1981 | 7:20  | 7/15/1981 | 11:00 | 3.66   | 9650 |
| 521 | 188 | Oak Creek #8 | 254 | D1 | 7/15/1981 | 11:00 | 8/5/1981  | 10:35 | 503.58 | 9650 |
| 521 | 188 | Oak Creek #8 |     | U1 | 7/21/1981 | 16:15 | 7/27/1981 | 13:09 | 140.89 | 1040 |

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|     |     |              |      |     |    |            |       |            |          |         |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|---------|------|---------------------------------|
| 521 | 188 | Oak Creek #8 | 254  |     | D1 | 8/5/1981   | 10:35 | 8/11/1981  | 17:30    | 150.91  | 3310 |                                 |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 8/7/1981   | 5:57  | 8/9/1981   | 7:03     | 49.1    | 1040 |                                 |
| 521 | 188 | Oak Creek #8 | 239  |     | D1 | 8/11/1981  | 17:30 | 8/11/1981  | 23:59    | 6.48    | 340  |                                 |
| 521 | 188 | Oak Creek #8 | 124  |     | PD | 8/14/1981  | 5:00  | 8/16/1981  | 17:30    | 60.5    | 1455 |                                 |
| 521 | 188 | Oak Creek #8 | 254  |     | D1 | 8/16/1981  | 17:30 | 8/24/1981  | 0:46     | 175.26  | 3310 |                                 |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 8/24/1981  | 0:44  | 8/26/1981  | 13:50    | 61.1    | 1060 |                                 |
| 521 | 188 | Oak Creek #8 | 263  |     | D1 | 8/26/1981  | 13:51 | 8/28/1981  | 4:00     | 38.15   | 3310 |                                 |
| 521 | 188 | Oak Creek #8 | 254  |     | D1 | 8/28/1981  | 4:00  | 8/29/1981  | 3:00     | 23      | 9650 |                                 |
| 521 | 188 | Oak Creek #8 | 240  |     | D1 | 8/31/1981  | 5:00  | 9/2/1981   | 10:00    | 53      | 9650 |                                 |
| 521 | 188 | Oak Creek #8 | 265  |     | D1 | 9/2/1981   | 10:00 | 9/9/1981   | 1:32     | 159.53  | 9650 |                                 |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 9/9/1981   | 1:32  | 9/11/1981  | 20:17    | 66.75   | 1000 |                                 |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 9/14/1981  | 0:34  | 9/15/1981  | 2:37     | 26.05   | 1060 |                                 |
| 521 | 188 | Oak Creek #8 | 230  |     | D1 | 9/17/1981  | 2:00  | 9/18/1981  | 11:00    | 33      | 1850 |                                 |
| 521 | 188 | Oak Creek #8 | 234  |     | D1 | 9/18/1981  | 11:00 | 9/19/1981  | 0:15     | 13.25   | 1850 |                                 |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 9/19/1981  | 0:18  | 9/19/1981  | 6:32     | 6.23    | 3110 |                                 |
| 521 | 188 | Oak Creek #8 | 234  |     | D1 | 9/19/1981  | 6:30  | 9/22/1981  | 7:00     | 72.5    | 1850 |                                 |
| 521 | 188 | Oak Creek #8 | 254  |     | D1 | 9/22/1981  | 10:00 | 9/23/1981  | 12:00    | 26      | 250  |                                 |
| 521 | 188 | Oak Creek #8 |      |     | PO | 9/26/1981  | 2:57  | 11/10/1981 | 11:44    | 1088.78 | 1999 |                                 |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 11/10/1981 | 14:52 | 11/10/1981 | 22:54    | 8.03    | 340  |                                 |
| 521 | 188 | Oak Creek #8 | 245  |     | D1 | 11/21/1981 | 6:30  | 11/21/1981 | 13:12    | 6.7     | 8560 |                                 |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 11/21/1981 | 13:12 | 11/23/1981 | 4:05     | 38.88   | 1000 |                                 |
| 521 | 188 | Oak Creek #8 | 255  |     | D1 | 11/28/1981 | 21:00 | 11/29/1981 | 3:00     | 6       | 340  |                                 |
| 521 | 188 | Oak Creek #8 | 165  |     | D1 | 11/29/1981 | 1:15  | 11/29/1981 | 16:15    | 15      | 1400 |                                 |
| 521 | 188 | Oak Creek #8 | 225  |     | D1 | 11/30/1981 | 21:00 | 12/1/1981  | 7:00     | 34      | 340  |                                 |
| 521 | 188 | Oak Creek #8 | 256  |     | D1 | 12/1/1981  | 17:15 | 12/1/1981  | 22:00    | 4.75    | 1455 |                                 |
| 521 | 188 | Oak Creek #8 | 216  |     | D1 | 12/1/1981  | 22:00 | 12/2/1981  | 16:15    | 18.25   | 340  |                                 |
| 521 | 188 | Oak Creek #8 | 256  |     | D1 | 12/2/1981  | 16:15 | 12/10/1981 | 3:00     | 178.75  | 1455 |                                 |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 12/2/1981  | 22:46 | 12/7/1981  | 9:56     | 107.16  | 1000 |                                 |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 12/11/1981 | 20:52 | 12/11/1981 | 22:10    | 1.3     | 1455 |                                 |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 12/11/1981 | 22:42 | 12/12/1981 | 1:22     | 2.66    | 740  |                                 |
| 521 | 188 | Oak Creek #8 | 240  |     | D1 | 12/15/1981 | 14:00 | 12/16/1981 | 22:00    | 32      | 340  |                                 |
| 521 | 188 | Oak Creek #8 | 250  |     | D1 | 12/20/1981 | 17:00 | 12/22/1981 | 0:29     | 31.48   | 340  |                                 |
| 521 | 188 | Oak Creek #8 | 200  |     | D1 | 12/22/1981 | 0:29  | 12/22/1981 | 12:00    | 11.51   | 340  |                                 |
| 521 | 188 | Oak Creek #8 | 260  |     | D1 | 12/22/1981 | 12:00 | 12/30/1981 | 11:00    | 191     | 340  |                                 |
| 521 | 188 | Oak Creek #8 | 220  |     | D1 | 12/30/1981 | 11:00 | 12/31/1981 | 8:00     | 21      | 9290 |                                 |
| 521 | 188 | Oak Creek #8 | 216  |     | D1 | 12/31/1981 | 8:00  | 12/31/1981 | 16:15    | 8.25    | 340  |                                 |
| 521 | 188 | Oak Creek #8 | 220  |     | D1 | 12/31/1981 | 16:15 | 12/31/1981 | 24:00:00 | 7.75    | 9290 |                                 |
| 521 | 188 | Oak Creek #8 | 000* | 66  | D1 | 1/1/1982   | 0:01  | 1/2/1982   | 2:45     | 26.73   | 9290 | COAL QUALITY                    |
| 521 | 188 | Oak Creek #8 | 000* | 26  | D1 | 1/2/1982   | 2:45  | 1/10/1982  | 3:00     | 192.25  | 340  | 83 MILL, EXPLOSION              |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 1/4/1982   | 10:19 | 1/6/1982   | 8:03     | 45.73   | 4261 | 2-CONTROL VALVE, REPAIR         |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 1/10/1982  | 6:16  | 1/10/1982  | 20:15    | 13.98   | 3414 | CROSSHEAD                       |
|     |     |              |      |     |    |            |       |            |          |         |      | BBP DIFF PRES INSTR, INSTRUMENT |
|     |     |              |      |     |    |            |       |            |          |         |      | FROZE UP                        |
|     |     |              |      |     |    |            |       |            |          |         |      | FROZEN RUPTURED HI PRES HSE     |
|     |     |              |      |     |    |            |       |            |          |         |      | SERVICE WATER SYS PREVENTED     |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 1/11/1982  | 21:00 | 1/13/1982  | 6:00     | 33      | 3811 | PULLING ASH                     |

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|     |     |              |      |     |    |           |       |           |       |        |      |  |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|--|
| 521 | 188 | Oak Creek #8 | 000* | 36  | D1 | 1/13/1982 | 6:00  | 1/17/1982 | 3:00  | 93     | 1850 | HIGH SILICA IN BOILER WATER  |
| 521 | 188 | Oak Creek #8 |      |     | NC | 1/22/1982 | 3:00  | 2/4/1982  | 5:01  | 314.01 | 1710 | BOILER CONTROLS SWINGING ABOVE 225MW NEED TO BE ADJUSTED                               |
| 521 | 188 | Oak Creek #8 |      |     | U2 | 1/31/1982 | 21:29 | 2/4/1982  | 5:01  | 79.53  | 1060 | ELEV 121 SO. FRACTURED WELD ON REHEAT PENDENT TUBE                                     |
| 521 | 188 | Oak Creek #8 | 000* | 168 | D1 | 2/4/1982  | 16:45 | 2/5/1982  | 3:00  | 10.25  | 1850 | HIGH BOILER WATER SILICA DUE TO RECENT RETURN TO SERVICE PERFORM BLOWDOWN              |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 2/5/1982  | 3:00  | 2/6/1982  | 3:00  | 24     | 1850 | BOILER WATER CHEMISTRY, HIGH SILICA  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 2/9/1982  | 0:33  | 2/10/1982 | 2:27  | 25.9   | 1050 | BOILER SUPERHEATER, LEAK SUPERHEAT OUTLET TUBE IN ATTIC FLYASH SYSTEM, HIGH ASH LEVELS |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 2/11/1982 | 7:00  | 2/12/1982 | 9:00  | 26     | 880  | RESULTS IN STACK OPACITY   |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 2/12/1982 | 7:00  | 2/12/1982 | 17:00 | 10     | 8560 | POOR PRECIPITATOR PERFORMANCE CAUSING HIGH OPACITY                                     |
| 521 | 188 | Oak Creek #8 | 000* | 205 | D1 | 2/19/1982 | 11:00 | 2/19/1982 | 20:40 | 9.66   | 310  | 84 MILL OUT FOR JAM TUBE REVISION WET COAL CAUSING CONTROL PROBLEMS                    |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 2/28/1982 | 18:00 | 3/1/1982  | 2:00  | 8      | 8560 | PRECIPITATOR, HIGH OPACITY WHEN BLOWING SOOT BLOWERS DROPPED LOAD                      |
| 521 | 188 | Oak Creek #8 | 000* | 195 | D1 | 3/8/1982  | 4:30  | 3/8/1982  | 10:30 | 6      | 1480 | 82 ID FAN INLET VANE JAMMED IN THE 60 % OPEN POSITION.                                 |
| 521 | 188 | Oak Creek #8 | 000* | 205 | D1 | 3/9/1982  | 9:15  | 3/10/1982 | 2:00  | 16.75  | 880  | FLYASH SYSTEM, SYS OUT TO REPLACE AND REPAIR PRIMARY SEP GATES                         |
| 521 | 188 | Oak Creek #8 | 000* | 175 | D1 | 3/14/1982 | 9:12  | 3/14/1982 | 10:15 | 1.04   | 880  | FLY ASH SYSTEM ELECTRIC FAILURE SYSTEM GROUNDED  |
| 521 | 188 | Oak Creek #8 | 000* | 125 | D1 | 3/14/1982 | 10:15 | 3/14/1982 | 17:15 | 7      | 880  | FLY ASH SYSTEM ELEC GROUNDED   |
| 521 | 188 | Oak Creek #8 |      |     | MO | 3/26/1982 | 23:57 | 3/28/1982 | 1:28  | 25.51  | 1590 | MAKE NECESSARY REPAIRS TO STACK CAP  |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 4/3/1982  | 20:00 | 4/4/1982  | 22:15 | 26.25  | 330  | 84 PULVERIZER, REPAIR COAL LEAK IN PIPE TO FURNACE                                     |
| 521 | 188 | Oak Creek #8 | 000* | 215 | D1 | 4/5/1982  | 1:00  | 4/5/1982  | 5:30  | 4.5    | 250  | 82 FEEDER MOTOR GROUNDED   |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 4/5/1982  | 13:15 | 4/6/1982  | 5:30  | 16.25  | 880  | FLY ASH SYSTEM, NUMEROUS SYSTEM MECHANICAL FAILURES-MAKE IMMEDIATE REPAIRS             |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 4/8/1982  | 1:30  | 5/11/1982 | 7:00  | 797.5  | 265  | AIR HEATER SEAL LEAKAGE PLUS WET COAL  |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 4/20/1982 | 5:00  | 4/21/1982 | 1:00  | 20     | 1850 | HIGH SILICA IN BOILER WATER  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 4/27/1982 | 23:50 | 4/30/1982 | 18:54 | 67.06  | 1040 | BOILER, REPAIR SUPERHEAT LEAK  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 5/9/1982  | 14:51 | 5/11/1982 | 1:48  | 34.95  | 1080 | REPAIR LEAKING ECONOMIZER TUBES  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 5/12/1982 | 9:46  | 5/16/1982 | 16:08 | 102.36 | 1050 | SUPERHEAT TUBE RUPTURE   |

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|     |     |              |      |     |    |            |       |            |       |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---|
| 521 | 188 | Oak Creek #8 |      |     | U1 | 5/19/1982  | 18:49 | 5/20/1982  | 4:33  | 9.73   | 8560 | PRECIPITATOR, REMOVE DOWNED WIRE  |
| 521 | 188 | Oak Creek #8 | 000* | 170 | D1 | 6/6/1982   | 12:00 | 6/6/1982   | 16:45 | 4.75   | 250  | REPLACE PARTED FEEDER BELT FOR 84 PULVERIZER                            |
| 521 | 188 | Oak Creek #8 | 000* | 165 | D1 | 6/8/1982   | 17:00 | 6/8/1982   | 19:30 | 2.5    | 1100 | SOOTBLOWER SYSTEM FAILURE NECESSITATED PREFERRED LOADING                |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 6/16/1982  | 7:39  | 6/16/1982  | 14:20 | 6.68   | 380  | UNIT TRIPPED, OIL TORCH FAILURE   |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 7/2/1982   | 23:00 | 7/5/1982   | 6:32  | 55.53  | 1080 | BOILER, LEAK IN ECONOMIZER  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 7/9/1982   | 11:22 | 7/10/1982  | 22:41 | 35.31  | 1040 | REPAIR RUPTURED SUPERHEAT PENDANT TUBE                                  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 7/16/1982  | 1:04  | 7/16/1982  | 3:12  | 2.13   | 310  | BOILER, UNIT TRIPPED BECAUSE OF MILLS PLUGGED WITH WET COAL             |
| 521 | 188 | Oak Creek #8 |      |     | U2 | 7/16/1982  | 18:01 | 7/17/1982  | 5:09  | 11.13  | 8560 | ELECTROSTATIC PRECIP, REMOVE BROKEN WIRE TO CLEAR GROUNDED NORTH CENTER |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 7/19/1982  | 6:20  | 7/20/1982  | 7:00  | 24.66  | 250  | 83 GRAVIMETRIC FEEDER, BELT TORE UP-REPLACED BELT                       |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 7/23/1982  | 1:00  | 7/25/1982  | 2:30  | 49.5   | 340  | PULVERIZERS, REDUCED MILLING CAPACITY DUE TO WET COAL                   |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 8/14/1982  | 1:30  | 8/14/1982  | 19:00 | 17.5   | 310  | 81 MILL SYSTEM OUT FOR MISCELLANEOUS REPAIRS                            |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 8/17/1982  | 22:00 | 8/18/1982  | 0:52  | 2.86   | 1700 | REPAIR LEAK ON LOW LOAD BYPASS LINE ON 82 BOILER FEED PUMP              |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 8/18/1982  | 0:52  | 8/18/1982  | 8:38  | 7.76   | 1700 | REPLACE 82 BOILER FEED PUMP LOW LOAD BYPASS ELBOW AT CONDENSER          |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 8/21/1982  | 16:45 | 8/21/1982  | 19:00 | 2.25   | 310  | 85 MILL OUT FOR INSPECTION FOR CAUSE OF HIGH VIBRATION                  |
| 521 | 188 | Oak Creek #8 | 000* | 115 | D1 | 8/22/1982  | 5:45  | 8/22/1982  | 10:05 | 4.33   | 880  | FLYASH SYSTEM OUT TO REPAIR PRIMARY COLLECTOR                           |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 9/4/1982   | 16:22 | 9/27/1982  | 2:09  | 537.78 | 1040 | RUPTURED SUPERHEATER PENDANT  |
| 521 | 188 | Oak Creek #8 |      |     | U3 | 9/27/1982  | 21:15 | 9/28/1982  | 11:54 | 14.65  | 1470 | BALANCE ID FAN  |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 9/28/1982  | 11:54 | 10/3/1982  | 21:30 | 129.6  | 1480 | 82 I.D. FAN, BLADE REPAIRS IN PROGRESS                                  |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 9/28/1982  | 11:54 | 10/3/1982  | 21:30 | 129.6  | 1480 | 82 I.D. FAN, BLADE REPAIRS IN PROGRESS                                  |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 10/3/1982  | 21:30 | 10/12/1982 | 6:30  | 201    | 265  | AIR HEATER BASKETS IN POOR CONDITION                                    |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 10/15/1982 | 23:25 | 10/17/1982 | 1:14  | 25.81  | 1060 | REPAIR REHEATER TUBE LEAK   |
| 521 | 188 | Oak Creek #8 |      |     | U2 | 10/17/1982 | 1:22  | 10/17/1982 | 2:45  | 1.38   | 4281 | TURBINE OIL COOLER TROUBLE  |
| 521 | 188 | Oak Creek #8 | 000* | 205 | D1 | 10/20/1982 | 10:45 | 10/21/1982 | 1:00  | 14.25  | 880  | FLYASH SYSTEM, HIGH LEVELS IN PRECIPITATOR HOPPERS                      |
| 521 | 188 | Oak Creek #8 | 000* | 175 | D1 | 10/28/1982 | 11:15 | 10/29/1982 | 4:30  | 17.25  | 460  | WARM-UP GUNS, GUN TIPS PLUGGED-CLEANED ALL GUNS                         |
| 521 | 188 | Oak Creek #8 | 000* | 175 | D1 | 10/29/1982 | 16:30 | 10/30/1982 | 16:00 | 23.5   | 310  | PULVERIZER, OIL LEAK ON #1 JOURNAL ROLLER BEARING                       |

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|     |     |              |      |     |    |            |       |            |       |         |      |  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|---------|------|--|
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 11/2/1982  | 10:30 | 11/4/1982  | 8:00  | 45.5    | 8550 | PRECIPITATOR, FAULTY CONTROL COMPONENT FIELD B-02                              |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 11/9/1982  | 22:43 | 11/10/1982 | 23:21 | 24.63   | 1000 | BOILER, REPAIR WATER WALL LEAK   |
| 521 | 188 | Oak Creek #8 | 000* | 175 | D1 | 11/13/1982 | 5:30  | 11/14/1982 | 2:00  | 20.5    | 1850 | HIGH SILICA IN BOILER WATER  |
| 521 | 188 | Oak Creek #8 | 000* | 130 | D3 | 11/14/1982 | 8:00  | 11/14/1982 | 13:30 | 5.5     | 1455 | BALANCE 82 ID FAN  |
| 521 | 188 | Oak Creek #8 | 000* | 230 | D1 | 11/15/1982 | 8:00  | 11/16/1982 | 6:40  | 22.66   | 1850 | HIGH BOILER SILICA   |
| 521 | 188 | Oak Creek #8 | 000* | 230 | D1 | 11/16/1982 | 8:30  | 11/18/1982 | 1:30  | 41      | 1850 | BOILER, HIGH SILICA BLOWING DOWN   |
| 521 | 188 | Oak Creek #8 | 000* | 180 | D1 | 11/18/1982 | 2:00  | 11/18/1982 | 5:45  | 3.75    | 250  | 84 MILL FEEDER, REPLACE BROKEN BELT  |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 11/23/1982 | 14:30 | 11/26/1982 | 5:45  | 63.25   | 1850 | BOILER WATER, REDUCE PRESSURE AND LOAD UNTIL SILICA LEVEL RETURNS TO SAFE AMT. |
| 521 | 188 | Oak Creek #8 | 000* | 130 | D1 | 11/28/1982 | 18:00 | 11/29/1982 | 1:30  | 7.5     | 1850 | BOILER, HIGH SILICA  |
| 521 | 188 | Oak Creek #8 | 000* | 220 | D1 | 11/29/1982 | 1:30  | 12/1/1982  | 1:30  | 72      | 1850 | BOILER, HIGH SILICA  |
| 521 | 188 | Oak Creek #8 | 000* | 120 | D1 | 11/30/1982 | 12:00 | 11/30/1982 | 17:00 | 5       | 3110 | REPAIR CONDENSER LEAK 1 TUBE   |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 12/2/1982  | 14:35 | 12/5/1982  | 4:48  | 62.21   | 1040 | REPAIR SUPERHEAT LEAK.   |
| 521 | 188 | Oak Creek #8 | 000* | 175 | D1 | 12/5/1982  | 22:45 | 12/7/1982  | 1:45  | 27      | 3352 | HIGH SILICA.   |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 12/7/1982  | 1:45  | 12/8/1982  | 1:45  | 24      | 3352 | HIGH SILICA CONCENTRATION IN BOILER WATER                                      |
| 521 | 188 | Oak Creek #8 |      |     | U2 | 12/8/1982  | 12:59 | 12/9/1982  | 3:00  | 14.01   | 1040 | CONVECTION SUPERHEAT LEAK IN ATTIC.  |
| 521 | 188 | Oak Creek #8 | 000* | 175 | D2 | 12/9/1982  | 22:00 | 12/10/1982 | 6:30  | 8.5     | 330  | 83 & 84 MILLS OUT OF SERVICE FOR REPAIRS.                                      |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D2 | 12/29/1982 | 17:30 | 12/29/1982 | 21:20 | 3.83    | 250  | REPAIR 85 MILL GRAVIMETRIC FEEDER BELT   |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 1/1/1983   | 0:01  | 1/1/1983   | 1:02  | 1.01    | 266  | AIR HEATER BASKETS COLLAPSED   |
| 521 | 188 | Oak Creek #8 |      |     | PO | 1/1/1983   | 1:02  | 3/14/1983  | 7:00  | 1733.96 | 4400 | ANNUAL OUTAGE FOR TURBINE AND BOILER   |
| 521 | 188 | Oak Creek #8 |      |     | SE | 3/14/1983  | 7:00  | 3/17/1983  | 8:25  | 73.41   | 380  | STARTUP CHECK OUT OF COMPUTER FOR BOILER FLAME GUARD SYSTEM                    |
| 521 | 188 | Oak Creek #8 | 000* | 10  | PD | 3/17/1983  | 8:25  | 3/19/1983  | 5:18  | 44.88   | 380  | START-UP CHECKOUT OF IGNITION CONTROL SYSTEM                                   |
| 521 | 188 | Oak Creek #8 |      |     | MO | 3/18/1983  | 7:45  | 3/18/1983  | 8:34  | 0.81    | 4460 | RAN OVERSPEED TEST-RESET GOV HI SPEED STOP                                     |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 3/19/1983  | 23:30 | 3/20/1983  | 19:00 | 19.5    | 1455 | 81 ID FAN OUT OF SERVICE EXCESSIVE VIBRATION                                   |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 3/19/1983  | 14:20 | 3/19/1983  | 23:30 | 9.16    | 3410 | 82 AND 73 BOILER FEED PUMPS OUT OF SERVICE                                     |
| 521 | 188 | Oak Creek #8 |      |     | U2 | 3/19/1983  | 5:18  | 3/19/1983  | 10:40 | 5.36    | 380  | REPAIRS TO IGNITION SYSTEM CONTROLS  |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 3/20/1983  | 19:00 | 3/21/1983  | 18:30 | 23.5    | 3352 | HIGH LEVEL OF SILICA IN BOILER WATER   |
| 521 | 188 | Oak Creek #8 | 000* | 125 | D1 | 3/21/1983  | 18:30 | 3/23/1983  | 5:55  | 35.41   | 880  | FLYASH SYSTEM NOT PULLING  |
| 521 | 188 | Oak Creek #8 | 000* | 230 | D1 | 3/23/1983  | 13:45 | 3/25/1983  | 1:50  | 36.08   | 1850 | HIGH BOILER WATER SILICA   |

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|     |     |              |      |     |    |           |       |           |       |        |      |   |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|---|
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 3/28/1983 | 18:30 | 3/28/1983 | 21:00 | 2.5    | 250  | 83 MILL SYSTEM OUT OF SERVICE DUE TO FEEDER CONTROL PROBLEMS                      |
| 521 | 188 | Oak Creek #8 | 000* | 165 | D1 | 3/28/1983 | 21:00 | 3/29/1983 | 9:00  | 12     | 1060 | REHEAT LEAK 2 CELL FRONT WALL   |
| 521 | 188 | Oak Creek #8 | 000* | 235 | D1 | 3/29/1983 | 9:00  | 3/31/1983 | 20:31 | 59.51  | 1060 | REHEAT LEAK   |
| 521 | 188 | Oak Creek #8 |      |     | U2 | 3/31/1983 | 20:31 | 4/3/1983  | 6:05  | 57.56  | 1060 | PAIR REHEAT LEAK ON FRONT WALL  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 4/3/1983  | 18:24 | 4/3/1983  | 18:54 | 0.5    | 740  | UNIT TRIP ON BOILER BOOSTER PUMP DIFFERENTIAL PRESSURE                            |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 4/3/1983  | 16:34 | 4/3/1983  | 18:08 | 1.56   | 380  | REPAIRS TO FSSS CONTROL SYSTEM  |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 4/6/1983  | 2:00  | 4/6/1983  | 21:00 | 19     | 310  | 84 MILL EXHAUSTER FAN VIBRATION AND REDUCED CAPACITY DUE TO WEAR FROM OTHER MILLS |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 4/7/1983  | 18:00 | 4/13/1983 | 17:45 | 143.75 | 200  | #84 MILL EXHAUSTER FAN DRIVE SHAFT SHEARED  |
| 521 | 188 | Oak Creek #8 | 000* | 215 | D1 | 4/16/1983 | 8:40  | 4/17/1983 | 3:44  | 19.06  | 4261 | #2 CONTROL VALVE STEM BROKEN  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 4/17/1983 | 3:44  | 4/23/1983 | 20:52 | 161.13 | 4261 | REPAIR #2 INLET CONTROL VALVE ON TURBINE  |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 4/24/1983 | 2:00  | 4/26/1983 | 2:00  | 48     | 1850 | HIGH SILICA IN BOILER WATER   |
| 521 | 188 | Oak Creek #8 |      |     | MO | 4/29/1983 | 22:05 | 5/3/1983  | 5:09  | 79.06  | 1510 | REPAIR #4 STACK BREECHING SEALS   |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 5/10/1983 | 21:35 | 5/11/1983 | 6:00  | 8.41   | 340  | 83 MILL NOISY EXHAUSTER FAN BEARING   |
| 521 | 188 | Oak Creek #8 | 000* | 95  | D1 | 5/14/1983 | 6:45  | 5/14/1983 | 9:00  | 2.25   | 8560 | SEVEN PRECIPITATOR FIELDS TRIPPED-REPLACE CONTROL TRANSFORMER                     |
| 521 | 188 | Oak Creek #8 | 000* | 140 | D1 | 5/14/1983 | 9:00  | 5/14/1983 | 10:45 | 1.75   | 8560 | PRECIPITATOR PROBLEMS   |
| 521 | 188 | Oak Creek #8 |      |     | U3 | 5/14/1983 | 23:06 | 5/15/1983 | 6:56  | 7.83   | 8560 | REMOVE GROUND FROM 8B3 PRECIPITATOR FIELD   |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D2 | 5/17/1983 | 1:30  | 5/17/1983 | 8:00  | 6.5    | 8560 | PRECIPITATOR FIELD B-3 GROUNDED, HIGH STACK OPACITY                               |
| 521 | 188 | Oak Creek #8 | 000* | 205 | D1 | 5/17/1983 | 8:00  | 5/17/1983 | 10:45 | 2.75   | 8560 | PRECIPITATOR FIELD B-3 GROUNDED, STACK EMISSION                                   |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 5/17/1983 | 22:21 | 5/18/1983 | 4:38  | 6.28   | 8560 | PRECIPITATOR FIELD GROUND   |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 5/23/1983 | 2:00  | 5/25/1983 | 1:30  | 47.5   | 8560 | ELECTROSTATIC PRECIPITATOR PROBLEMS   |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 5/25/1983 | 1:30  | 5/27/1983 | 1:00  | 47.5   | 8560 | ELECTROSTATIC PRECIPITATOR PROBLEMS   |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D2 | 5/27/1983 | 1:00  | 5/27/1983 | 10:15 | 9.25   | 310  | INSPECTION OF 84 MILL PULVERIZERS   |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 5/27/1983 | 10:15 | 5/28/1983 | 7:00  | 20.75  | 310  | 83 MILL OUT-OTHER MILL CONDITIONS   |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 5/28/1983 | 7:00  | 5/28/1983 | 14:05 | 7.08   | 310  | #83 O.O.S. #84 REPLACE ROLLERS(MILLS)   |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 6/4/1983  | 12:31 | 6/6/1983  | 17:28 | 52.95  | 1005 | RUPTURED STEAM GENERATING TUBE ELEV 121   |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 6/8/1983  | 9:00  | 6/8/1983  | 9:30  | 0.5    | 3410 | #81 BOILER FEED PUMP COUPLING PLUG FOR GREASE IS LOOSE                            |

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|     |     |              |      |     |    |           |       |           |       |        |      |   |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|---|
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 6/11/1983 | 1:00  | 6/12/1983 | 10:00 | 33     | 8560 | ELECTROSTATIC PRECIPITATOR PROBLEMS   |
| 521 | 188 | Oak Creek #8 |      |     | U2 | 6/12/1983 | 14:57 | 6/15/1983 | 8:25  | 65.46  | 1050 | BOILER FORCED OUTAGE SUPERHEAT PLATEN ASSEMBLY LEAK                             |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D2 | 6/12/1983 | 10:00 | 6/12/1983 | 14:57 | 4.94   | 310  | 83 MILL OUT OF SERVICE FOR REPAIRS, CONDITION OF REMAINING MILLS LIMITS LOADING |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 6/17/1983 | 8:00  | 6/18/1983 | 0:05  | 16.08  | 340  | 83 MILL HAS BROKEN PYRITE SCRAPERS  |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 6/20/1983 | 21:00 | 6/21/1983 | 6:00  | 9      | 30   | 85 GRAVIMETRIC FEEDER BELT DAMAGED TO BE REPLACED                               |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 6/24/1983 | 12:00 | 6/24/1983 | 16:00 | 4      | 310  | 84 MILL HIGH VIBRATION ON EXHAUSTER FAN BEARINGS                                |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 7/14/1983 | 7:32  | 7/17/1983 | 3:54  | 68.36  | 1050 | RUPTURED SUPERHEAT TUBE   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 7/18/1983 | 19:28 | 7/20/1983 | 11:40 | 40.2   | 1050 | BOILER SUPERHEAT PLATEN ASSEMBLY TUBE LEAK                                      |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 7/26/1983 | 10:00 | 7/28/1983 | 4:55  | 42.91  | 1450 | LOW EXCESS AIR-FANS AT CAPACITY   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 7/28/1983 | 4:55  | 7/31/1983 | 4:49  | 71.9   | 1005 | REPAIR FRONT WATER WALL TUBE LEAK   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 8/1/1983  | 22:50 | 8/7/1983  | 6:24  | 127.56 | 1040 | REPAIR SUPERHEAT LEAK ELEV 121 SOUTH  |
| 521 | 188 | Oak Creek #8 | 000* | 140 | D2 | 8/9/1983  | 0:30  | 8/9/1983  | 11:30 | 11     | 1480 | 81 ID FAN OUT FOR BALANCING   |
| 521 | 188 | Oak Creek #8 | 000* | 100 | D1 | 8/9/1983  | 11:30 | 8/10/1983 | 17:10 | 29.66  | 1480 | 81 ID FAN OUT FOR REPAIRS. HIGH STACK OPACITY                                   |
| 521 | 188 | Oak Creek #8 | 000* | 135 | D2 | 8/16/1983 | 22:20 | 8/17/1983 | 5:45  | 7.41   | 1480 | REPAIR INBOARD FAN BRG SEAL 81 INDUCED FAN                                      |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 8/18/1983 | 16:45 | 8/19/1983 | 11:05 | 18.33  | 250  | REPAIR 83 MILL GRAV FEEDER CLEAN OUT CONVEYOR                                   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 8/19/1983 | 11:05 | 8/22/1983 | 1:37  | 62.53  | 1170 | SUPERHEAT PENDANT TORE APART  |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 8/25/1983 | 2:00  | 8/28/1983 | 16:55 | 86.91  | 3299 | HIGH LAKE TEMP CAUSING EXCESSIVE CONDENSER BACK PRESSURE                        |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 8/28/1983 | 16:55 | 9/2/1983  | 8:27  | 111.53 | 1005 | WATER WALL LEAK   |
| 521 | 188 | Oak Creek #8 | 000* | 105 | D1 | 9/2/1983  | 14:00 | 9/2/1983  | 19:15 | 5.25   | 1480 | HIGH VIBRATION 82 ID FAN OUT TO BALANCE   |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 9/3/1983  | 2:00  | 9/6/1983  | 2:00  | 72     | 3299 | HIGH LAKE TEMPERATURES CAUSING HIGH BACK PRESSURE                               |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 9/6/1983  | 2:00  | 9/8/1983  | 14:53 | 60.88  | 290  | REDUCED PULVERIZER CAPACITY DUE TO WORN MILLS                                   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/8/1983  | 14:53 | 9/11/1983 | 21:09 | 78.26  | 1040 | LEAK IN #2 SUPERHEAT DIVISION WALL  |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 9/12/1983 | 1:30  | 9/13/1983 | 3:00  | 25.5   | 1850 | HIGH SILICA IN BOILER WATER   |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 9/13/1983 | 8:10  | 9/17/1983 | 2:20  | 90.16  | 310  | MILL CONDITION-NEED OVERHAUL  |
| 521 | 188 | Oak Creek #8 | 000* | 200 | PD | 9/17/1983 | 2:20  | 9/17/1983 | 17:00 | 14.66  | 340  | 83 MILL OUT AND 82 MILL OUT FOR ROLLER ADJUSTMENT                               |

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|     |     |              |      |     |    |            |       |            |       |        |      |                                    |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|------------------------------------|
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/18/1983  | 13:00 | 9/20/1983  | 9:44  | 44.73  | 1140 | SUPERHEAT PENDANT TUBE RUPTURE     |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 9/18/1983  | 2:20  | 9/18/1983  | 9:15  | 6.91   | 340  | 83 MILL OUT/84 MILL OUT FOR ROLLER |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/21/1983  | 13:04 | 9/26/1983  | 1:20  | 108.26 | 1005 | ADJUSTMENT                         |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 9/27/1983  | 1:55  | 9/28/1983  | 3:30  | 25.58  | 310  | WATER TUBE LEAK                    |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 9/28/1983  | 3:30  | 10/2/1983  | 3:30  | 96     | 310  | BROKEN PYRITE SCRAPERS ON 84       |
| 521 | 188 | Oak Creek #8 | 000* | 180 | D1 | 10/2/1983  | 3:30  | 10/2/1983  | 18:55 | 15.41  | 310  | MILL-83 ALSO OUT FOR REPAIRS       |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 10/2/1983  | 18:55 | 10/4/1983  | 18:15 | 47.33  | 310  | UNIT LIMITED DUE TO WORN MILLS     |
| 521 | 188 | Oak Creek #8 | 000* | 203 | D1 | 10/4/1983  | 18:15 | 10/6/1983  | 7:40  | 37.41  | 1090 | 82 AND 83 MILLS OUT OF SERVICE     |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 10/6/1983  | 7:40  | 10/6/1983  | 13:50 | 6.16   | 290  | MILL CONDITIONS-MILLS WORN         |
| 521 | 188 | Oak Creek #8 | 000* | 203 | D1 | 10/6/1983  | 13:50 | 10/7/1983  | 16:13 | 26.38  | 1090 | WATER AND STEAM TUBE LEAKS         |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/7/1983  | 16:13 | 10/11/1983 | 7:00  | 86.78  | 1090 | OPERATING AT REDUCED PRESSURE      |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/11/1983 | 7:00  | 10/12/1983 | 5:30  | 22.5   | 4720 | 1950 PSIG THROTTLE                 |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/12/1983 | 5:31  | 10/12/1983 | 14:34 | 9.05   | 4810 | MILL CONDITIONS-#83 MILL OUT       |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 10/13/1983 | 1:30  | 10/14/1983 | 1:30  | 24     | 1850 | WATER AND STEAM TUBE LEAKS         |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 10/14/1983 | 1:30  | 10/16/1983 | 9:20  | 55.83  | 340  | REPAIR WATER AND STEAM TUBE        |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 10/16/1983 | 14:00 | 10/18/1983 | 1:45  | 35.75  | 340  | LEAKS                              |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D2 | 10/16/1983 | 9:20  | 10/16/1983 | 14:00 | 4.66   | 310  | GENERATOR LOCKED OUT BEFORE        |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 10/18/1983 | 13:00 | 10/19/1983 | 2:00  | 13     | 290  | SYNCHRONIZING                      |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 10/18/1983 | 1:45  | 10/18/1983 | 13:00 | 11.25  | 3501 | LOW OIL ON B PHASE BUSHING ON OIL  |
| 521 | 188 | Oak Creek #8 | 000* | 220 | D1 | 10/19/1983 | 2:00  | 10/20/1983 | 21:35 | 43.58  | 1005 | CIRCUIT BREAKER                    |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 10/20/1983 | 21:35 | 10/26/1983 | 12:30 | 134.91 | 1005 | HIGH SILICA IN BOILER WATER        |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 10/26/1983 | 19:00 | 10/27/1983 | 8:00  | 13     | 1300 | MILL CONDITIONS-PULVERIZERS        |
| 521 | 188 | Oak Creek #8 | 000* | 165 | D1 | 10/27/1983 | 8:00  | 10/27/1983 | 18:45 | 10.75  | 310  | WORN                               |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 10/27/1983 | 18:45 | 10/28/1983 | 5:45  | 11     | 3501 | MILL CONDITIONS-PULVERIZERS        |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 10/28/1983 | 20:20 | 11/5/1983  | 15:45 | 187.41 | 340  | WORN                               |
|     |     |              |      |     |    |            |       |            |       |        |      | REDUCED LOAD TO REPLACE STUCK      |
|     |     |              |      |     |    |            |       |            |       |        |      | ROLLER #82 MILL                    |
|     |     |              |      |     |    |            |       |            |       |        |      | 81 MILL OVERHAUL 82-84-85 MILLS IN |
|     |     |              |      |     |    |            |       |            |       |        |      | POOR SHAPE                         |
|     |     |              |      |     |    |            |       |            |       |        |      | 81-2 AND 86-7 HEATER DRAIN PUMPS   |
|     |     |              |      |     |    |            |       |            |       |        |      | OUT-HIGH CONDENSER HOTWELL         |
|     |     |              |      |     |    |            |       |            |       |        |      | LEVEL AS A RESULT                  |
|     |     |              |      |     |    |            |       |            |       |        |      | WATERWALL LEAK-REDUCED             |
|     |     |              |      |     |    |            |       |            |       |        |      | PRESSURE                           |
|     |     |              |      |     |    |            |       |            |       |        |      | WATER TUBE LEAK BOILER OUT FOR     |
|     |     |              |      |     |    |            |       |            |       |        |      | REPAIR                             |
|     |     |              |      |     |    |            |       |            |       |        |      | CHEMICAL PLUGGING OF WATER         |
|     |     |              |      |     |    |            |       |            |       |        |      | WALL TUBES                         |
|     |     |              |      |     |    |            |       |            |       |        |      | #81 & #84 MILLS OUT-OVERHAUL       |
|     |     |              |      |     |    |            |       |            |       |        |      | 81-2 AND 86-7 HEATER DRAIN PUMPS   |
|     |     |              |      |     |    |            |       |            |       |        |      | OUT, FLASHING OF HEATERS CAUSES    |
|     |     |              |      |     |    |            |       |            |       |        |      | HIGH HOTWELL                       |
|     |     |              |      |     |    |            |       |            |       |        |      | MILL CONDITIONS                    |

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|     |     |              |      |     |    |            |       |            |          |        |      |   |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|--------|------|---|
| 521 | 188 | Oak Creek #8 | 000* | 140 | D1 | 10/28/1983 | 5:45  | 10/28/1983 | 9:15     | 3.5    | 3410 | 81 LOW PRESSURE BOILER FEED PUMP BEING REPACKED                                 |
| 521 | 188 | Oak Creek #8 | 000* | 140 | D1 | 10/28/1983 | 10:30 | 10/28/1983 | 12:30    | 2      | 3410 | 81 LOW PRESSURE BOILER FEED PUMP BEING REPACKED                                 |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 10/28/1983 | 16:15 | 10/28/1983 | 20:20    | 4.08   | 3501 | HIGH CONDENSER HOTWELL LEVEL-#1 & 2 AND #86 FEEDWATER HEATER DRAIN PUMPS O.O.S. |
| 521 | 188 | Oak Creek #8 | 000* | 170 | D1 | 11/5/1983  | 15:45 | 11/5/1983  | 21:40    | 5.91   | 1140 | SUPERHEAT PENDANTS FOULING  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/5/1983  | 21:40 | 11/6/1983  | 18:18    | 20.63  | 1040 | REPAIR SUPERHEAT LEAK   |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 11/7/1983  | 0:45  | 11/7/1983  | 6:05     | 5.33   | 1850 | HIGH SILICA IN BOILER WATER   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/7/1983  | 8:44  | 11/10/1983 | 8:41     | 71.94  | 1040 | REPAIR SUPERHEAT LEAK   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/11/1983 | 5:35  | 11/13/1983 | 18:24    | 60.81  | 1040 | REPAIR SUPERHEAT LEAK   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/15/1983 | 18:42 | 11/24/1983 | 22:00    | 219.3  | 1040 | REPAIR SUPERHEAT LEAK   |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 11/24/1983 | 22:00 | 12/1/1983  | 1:00     | 171    | 1310 | WATER SIDE FOULING CLEANING   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/1/1983  | 1:01  | 12/11/1983 | 17:01    | 256    | 1005 | REPAIR WATER TUBE LEAKS   |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 12/12/1983 | 2:00  | 12/12/1983 | 3:31     | 1.51   | 1850 | HIGH SILICA IN BLR WATER  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/12/1983 | 3:31  | 12/12/1983 | 4:29     | 0.96   | 740  | BBP DIFFERENTIAL TRIP DURING TESTING  |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 12/12/1983 | 4:29  | 12/13/1983 | 2:30     | 22.01  | 1850 | HIGH SILICA IN BLR WATER  |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 12/13/1983 | 2:30  | 12/15/1983 | 1:45     | 47.25  | 1850 | HIGH SILICA IN BLR WATER  |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 12/15/1983 | 1:45  | 12/16/1983 | 1:45     | 24     | 1850 | HIGH SILICA IN BLR WATER  |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 12/16/1983 | 1:45  | 12/16/1983 | 5:50     | 4.08   | 770  | BLR RECIRCULATION PMP PRESSURE LOW  |
| 521 | 188 | Oak Creek #8 | 000* | 100 | D1 | 12/17/1983 | 18:15 | 12/19/1983 | 12:00    | 41.75  | 880  | FLYASH SYSTEM PROBLEMS  |
| 521 | 188 | Oak Creek #8 | 000* | 186 | D1 | 12/19/1983 | 12:00 | 12/19/1983 | 17:00    | 5      | 880  | FLYASH SYSTEM PROBLEMS  |
| 521 | 188 | Oak Creek #8 | 000* | 135 | D1 | 12/19/1983 | 18:00 | 12/20/1983 | 6:00     | 12     | 880  | FLYASH SYSTEM PROBLEMS  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/22/1983 | 1:53  | 12/23/1983 | 6:45     | 28.86  | 1040 | SUPERHEAT LEAK  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/23/1983 | 6:46  | 12/23/1983 | 11:48    | 5.03   | 4250 | HIGH VIB ON B LOW PRESS TURB  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/27/1983 | 3:00  | 12/28/1983 | 3:09     | 24.15  | 1040 | SUPERHEAT LEAK  |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 12/29/1983 | 4:30  | 12/31/1983 | 24:00:00 | 67.5   | 1350 | REDUCED PRESS SUPHT TUBE. EVENT CONTINUES IN '84 SEE EVENT NO. 1                |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 1/1/1984   | 0:00  | 1/6/1984   | 11:05    | 131.08 | 1350 | REDUCED PRESS, SUPHT TUBE. EVENT STARTED 12/29/83 04:30, '83                    |
| 521 | 188 | Oak Creek #8 | 000* | 245 | D1 | 1/6/1984   | 11:05 | 1/8/1984   | 13:45    | 50.66  | 3501 | EVENT NO. 113.  |
| 521 | 188 | Oak Creek #8 | 000* | 261 | D1 | 1/8/1984   | 13:45 | 1/11/1984  | 1:15     | 59.5   | 3501 | HEATER DRAIN PUMPS  |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 1/11/1984  | 1:15  | 1/16/1984  | 1:15     | 120    | 1350 | HEATER DRAIN PUMPS  |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D4 | 1/16/1984  | 1:15  | 1/19/1984  | 7:10     | 77.91  | 310  | REDUCED PRESS. FOR RELIABILITY  |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D4 | 1/19/1984  | 7:10  | 1/21/1984  | 3:00     | 43.83  | 310  | OVERHAUL 85 MILL  |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D4 | 1/21/1984  | 3:00  | 1/27/1984  | 6:24     | 147.39 | 310  | OVERHAUL 85 MILL  |
| 521 | 188 | Oak Creek #8 | 000* | 245 | D1 | 1/27/1984  | 6:24  | 1/27/1984  | 8:00     | 1.6    | 8560 | OVERHAUL 85 MILL  |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 1/27/1984  | 8:00  | 1/29/1984  | 1:00     | 41     | 310  | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 188 | Oak Creek #8 | 000* | 245 | D1 | 1/29/1984  | 1:00  | 1/29/1984  | 11:00    | 10     | 8560 | OVERHAUL 85 MILL  |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 1/29/1984  | 11:00 | 2/3/1984   | 9:30     | 118.5  | 310  | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 2/3/1984   | 9:30  | 2/3/1984   | 22:28    | 12.96  | 1200 | OVERHAUL 85 MILL  |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 2/3/1984   | 9:30  | 2/3/1984   | 22:28    | 12.96  | 1200 | OPERATION AT REDUCED POWER  |

|     |     |              |      |     |    |           |       |           |       |        |      |                               |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|-------------------------------|
| 521 | 188 | Oak Creek #8 |      |     | U2 | 2/3/1984  | 22:28 | 2/4/1984  | 19:31 | 21.05  | 1160 | FIRST REHEATER DESLAGGING     |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 2/5/1984  | 1:30  | 2/5/1984  | 5:15  | 3.75   | 310  | 85 MILL OVERHAUL              |
| 521 | 188 | Oak Creek #8 | 000* | 130 | D2 | 2/5/1984  | 5:15  | 2/5/1984  | 6:30  | 1.25   | 3415 | 82 FEEDWTR PUMP LUBE OIL SYS  |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 2/5/1984  | 6:30  | 2/7/1984  | 18:09 | 59.65  | 310  | 85 MILL OVERHAUL              |
| 521 | 188 | Oak Creek #8 | 000* | 192 | D1 | 2/7/1984  | 18:10 | 2/7/1984  | 21:20 | 3.16   | 350  | 83 MILL REPAIR COAL LEAKS     |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 2/7/1984  | 21:20 | 2/9/1984  | 7:55  | 34.58  | 310  | 85 MILL OVERHAUL              |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 2/9/1984  | 7:55  | 2/11/1984 | 1:45  | 41.83  | 310  | 85 MILL OVERHAUL              |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 2/11/1984 | 1:45  | 2/11/1984 | 12:05 | 10.33  | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 2/11/1984 | 12:05 | 2/13/1984 | 10:23 | 46.3   | 310  | 85 MILL OVERHAUL              |
| 521 | 188 | Oak Creek #8 | 000* | 230 | D1 | 2/13/1984 | 10:23 | 2/13/1984 | 15:00 | 4.61   | 9270 | WET COAL                      |
| 521 | 188 | Oak Creek #8 | 000* | 110 | D1 | 2/13/1984 | 15:00 | 2/13/1984 | 17:00 | 2      | 880  | FLYASH HANDLING               |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 2/13/1984 | 17:00 | 2/14/1984 | 1:45  | 8.75   | 310  | 85 MILL OVERHAUL              |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 2/14/1984 | 1:45  | 2/14/1984 | 7:30  | 5.75   | 1350 | OTHER TUBE PROBLEMS           |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 2/14/1984 | 7:30  | 2/16/1984 | 9:30  | 50     | 310  | 85 MILL                       |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 2/16/1984 | 9:30  | 2/16/1984 | 16:30 | 7      | 310  | 83 AND 85 MILLS               |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 2/16/1984 | 16:31 | 2/18/1984 | 3:29  | 34.96  | 9250 | LOW BTU COAL                  |
| 521 | 188 | Oak Creek #8 | 000* | 235 | D1 | 2/18/1984 | 3:30  | 2/18/1984 | 8:50  | 5.33   | 8560 | PRECIPITATOR PROBLEM          |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 2/18/1984 | 8:50  | 2/18/1984 | 11:05 | 2.25   | 8560 | ELECT PRECIP PROBLEM          |
| 521 | 188 | Oak Creek #8 | 000* | 120 | D1 | 2/18/1984 | 11:06 | 2/18/1984 | 13:30 | 2.4    | 880  | FLYASH HANDLING               |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 2/18/1984 | 13:31 | 2/19/1984 | 1:30  | 11.98  | 8560 | ELECT PRECIP PROBLEM          |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 2/19/1984 | 1:31  | 2/19/1984 | 8:00  | 6.48   | 1350 | REDUCED BOILER PRESSURE       |
| 521 | 188 | Oak Creek #8 | 000* | 230 | D1 | 2/19/1984 | 8:01  | 2/19/1984 | 13:45 | 5.73   | 330  | PULVERIZER COAL LEAK          |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 2/19/1984 | 13:45 | 2/20/1984 | 12:49 | 23.06  | 1350 | REDUCED BOILER PRESSURE       |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 2/20/1984 | 12:50 | 2/20/1984 | 17:30 | 4.66   | 330  | PULVERIZER COAL LEAK          |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 2/20/1984 | 17:31 | 2/21/1984 | 5:30  | 11.98  | 1350 | REDUCED BOILER PRESSURE       |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 2/21/1984 | 5:31  | 2/21/1984 | 13:40 | 8.14   | 8560 | ELECTROSTATIC PRECIP PROBLEM  |
| 521 | 188 | Oak Creek #8 | 000* | 245 | D1 | 2/21/1984 | 13:40 | 2/21/1984 | 22:45 | 9.08   | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 2/21/1984 | 22:45 | 2/27/1984 | 0:05  | 121.33 | 1350 | REDUCED BOILER PRESSURE       |
| 521 | 188 | Oak Creek #8 |      |     | PO | 3/2/1984  | 21:49 | 3/2/1984  | 22:27 | 0.63   | 4460 | TURBINE OVERSPEED TRIP TEST   |
| 521 | 188 | Oak Creek #8 |      |     | PO | 3/2/1984  | 23:32 | 4/12/1984 | 19:52 | 980.33 | 1800 | ANNUAL OUTAGE                 |
| 521 | 188 | Oak Creek #8 | 000* | 120 | D1 | 4/13/1984 | 2:00  | 4/13/1984 | 12:00 | 10     | 1850 | BOILER WATER CONDITION        |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 4/13/1984 | 12:00 | 4/14/1984 | 10:00 | 22     | 1850 | BOILER WATER CONDITION        |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 4/14/1984 | 10:00 | 4/14/1984 | 14:54 | 4.9    | 3416 | OTHER FDWATER PUMP PROBLEMS   |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 4/14/1984 | 14:54 | 4/14/1984 | 17:26 | 2.53   | 1710 | CONTROL PROBLEMS-FSSS SYS     |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 4/14/1984 | 17:26 | 4/14/1984 | 19:30 | 2.06   | 3416 | OTHER FDWATER PUMP PROBLEMS   |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 4/14/1984 | 19:30 | 4/16/1984 | 1:00  | 29.5   | 1850 | BOILER WATER CONDITION        |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 4/16/1984 | 1:00  | 4/16/1984 | 12:30 | 11.5   | 1850 | BOILER WATER CONDITION        |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 4/16/1984 | 13:40 | 4/16/1984 | 14:27 | 0.78   | 4261 | CONTROL VALVES                |
| 521 | 188 | Oak Creek #8 | 000* | 160 | PD | 4/16/1984 | 15:30 | 4/16/1984 | 19:45 | 4.25   | 1455 | INDUCES DRAFT FANS            |
| 521 | 188 | Oak Creek #8 | 000* | 205 | D1 | 4/18/1984 | 10:19 | 4/18/1984 | 12:05 | 1.76   | 740  | BOILER RECIRCULATION PUMPS    |
| 521 | 188 | Oak Creek #8 |      |     | MO | 4/19/1984 | 21:02 | 4/20/1984 | 0:30  | 3.46   | 4261 | CONTROL VALVES                |
| 521 | 188 | Oak Creek #8 |      |     | MO | 4/20/1984 | 0:30  | 4/21/1984 | 1:18  | 24.8   | 800  | DRUM RELIEF SAFETY VALVES     |
| 521 | 188 | Oak Creek #8 | 000* | 230 | D1 | 4/21/1984 | 1:18  | 4/21/1984 | 10:51 | 9.55   | 1850 | BLR WATER CONDITION           |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 4/21/1984 | 10:51 | 4/21/1984 | 10:59 | 0.13   | 1710 | COMBUSTION CONTROLS           |
| 521 | 188 | Oak Creek #8 | 000* | 230 | D1 | 4/21/1984 | 10:59 | 4/22/1984 | 5:45  | 18.76  | 1850 | BLR WATER CONDITIONS          |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 4/23/1984 | 9:20  | 4/23/1984 | 12:40 | 3.33   | 8560 | ELECTROSTATIC PRECIP          |



|     |     |              |      |     |    |           |       |           |       |       |      |                                |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|-------|------|--------------------------------|
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 4/23/1984 | 12:40 | 4/23/1984 | 16:20 | 3.66  | 3501 | HEATER DRAIN PUMPS             |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 4/24/1984 | 8:20  | 4/24/1984 | 10:00 | 1.66  | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 4/24/1984 | 10:00 | 4/24/1984 | 19:30 | 9.5   | 1850 | BLR WATER CONDITIONS           |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 4/24/1984 | 19:30 | 4/25/1984 | 1:45  | 6.25  | 1850 | BLR WATER CONDITIONS           |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 4/25/1984 | 20:05 | 4/25/1984 | 21:56 | 1.85  | 330  | PULV COAL LEAK                 |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 4/26/1984 | 13:00 | 4/27/1984 | 14:00 | 25    | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 4/27/1984 | 14:00 | 4/28/1984 | 7:50  | 17.83 | 1530 | OTHER FLUE GAS PROBLEMS        |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 4/28/1984 | 7:50  | 4/28/1984 | 20:10 | 12.33 | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 5/8/1984  | 0:19  | 5/10/1984 | 18:30 | 66.18 | 1000 | FURNACE WATER WALL LEAK        |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 5/10/1984 | 18:30 | 5/10/1984 | 20:00 | 1.5   | 580  | LIGHT OFF SYSTEM               |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 5/10/1984 | 20:00 | 5/11/1984 | 1:13  | 5.21  | 1000 | FURNACE WATER WALL LEAK        |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 5/11/1984 | 1:13  | 5/11/1984 | 9:30  | 8.28  | 1850 | BLR WATER CONDITION            |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 5/11/1984 | 9:30  | 5/12/1984 | 2:00  | 16.5  | 1850 | BLR WATER CONDITION            |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 5/12/1984 | 8:06  | 5/12/1984 | 23:21 | 15.25 | 4570 | GENERATOR CASING               |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 5/12/1984 | 23:24 | 5/12/1984 | 23:35 | 0.18  | 9900 | OPERATOR ERROR                 |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 5/14/1984 | 7:30  | 5/14/1984 | 11:05 | 3.58  | 8560 | ELECT STAT PRECIP PROB         |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 5/16/1984 | 8:50  | 5/17/1984 | 1:50  | 17    | 9270 | WET COAL                       |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 5/18/1984 | 16:15 | 5/18/1984 | 18:30 | 2.25  | 8550 | ELECTROSTATIC PRECIP FOULING   |
| 521 | 188 | Oak Creek #8 | 000* | 255 | D1 | 5/20/1984 | 1:00  | 5/21/1984 | 3:00  | 26    | 290  | PULV REDUCED CAPACITY          |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 5/21/1984 | 5:00  | 5/21/1984 | 9:15  | 4.25  | 290  | PULV REDUCED CAPACITY          |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 5/21/1984 | 9:15  | 5/22/1984 | 10:30 | 25.25 | 9290 | OTHER FUEL QUALITY PROBLEMS    |
| 521 | 188 | Oak Creek #8 | 000* | 255 | D1 | 5/22/1984 | 10:30 | 5/23/1984 | 0:30  | 14    | 1710 | COMBUSTION/STEAM COND CONTROLS |
| 521 | 188 | Oak Creek #8 | 000* | 255 | D1 | 5/23/1984 | 8:30  | 5/24/1984 | 8:40  | 24.16 | 290  | PULV RED CAPACITY DUE TO WEAR  |
| 521 | 188 | Oak Creek #8 | 000* | 255 | D1 | 5/25/1984 | 9:00  | 5/25/1984 | 11:45 | 2.75  | 8560 | ELECTROSTATIC PRECIP PROB      |
| 521 | 188 | Oak Creek #8 | 000* | 255 | D1 | 5/25/1984 | 13:05 | 5/25/1984 | 13:55 | 0.83  | 9270 | WET COAL                       |
| 521 | 188 | Oak Creek #8 | 000* | 255 | D1 | 5/26/1984 | 8:43  | 5/26/1984 | 11:10 | 2.45  | 8560 | ELECTROSTATIC PRECIP PROB      |
| 521 | 188 | Oak Creek #8 | 000* | 255 | D1 | 5/27/1984 | 15:15 | 5/29/1984 | 1:00  | 33.75 | 8560 | ELECTROSTATIC PRECIP PROB      |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 5/29/1984 | 8:00  | 5/30/1984 | 23:00 | 39    | 8560 | ELECTROSTATIC PRECIP PROB      |
| 521 | 188 | Oak Creek #8 | 000* | 263 | D1 | 6/5/1984  | 11:20 | 6/5/1984  | 18:00 | 6.66  | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 6/7/1984  | 8:00  | 6/7/1984  | 9:25  | 1.41  | 110  | OTHER COAL FUEL SUPPLY PROB    |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 6/7/1984  | 11:40 | 6/7/1984  | 14:23 | 2.71  | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 6/15/1984 | 16:55 | 6/17/1984 | 20:39 | 51.73 | 1005 | GEN TUBE                       |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 6/17/1984 | 20:38 | 6/18/1984 | 4:45  | 8.11  | 1850 | BLR WATER CONDITION            |
| 521 | 188 | Oak Creek #8 | 000* | 140 | D1 | 6/18/1984 | 4:45  | 6/18/1984 | 8:00  | 3.25  | 380  | LIGHT OFF SYS                  |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 6/18/1984 | 8:00  | 6/18/1984 | 13:20 | 5.33  | 1850 | BLR WATER CONDITION            |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 6/18/1984 | 13:20 | 6/18/1984 | 23:00 | 9.66  | 8560 | ELECTROSTATIC PRECIP PROB      |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 6/19/1984 | 10:05 | 6/20/1984 | 9:50  | 23.75 | 9290 | OTHER FUEL QUAL PROBLEMS       |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 6/20/1984 | 9:50  | 6/21/1984 | 6:47  | 20.95 | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 6/21/1984 | 8:20  | 6/22/1984 | 23:29 | 39.15 | 8560 | ELECTROSTATIC PRECIP PROB      |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 6/22/1984 | 23:30 | 6/23/1984 | 8:12  | 8.7   | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 188 | Oak Creek #8 | 000* | 235 | D1 | 6/25/1984 | 8:45  | 6/25/1984 | 11:00 | 2.25  | 9620 | PARTICULATE STACK EMISSIONS    |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 6/29/1984 | 11:50 | 6/30/1984 | 14:05 | 26.25 | 310  | PULV MILL OR MILL PROBLEMS     |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 7/2/1984  | 14:00 | 7/3/1984  | 5:15  | 15.25 | 310  | PULVERIZER MILL                |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 7/3/1984  | 9:00  | 7/3/1984  | 23:30 | 14.5  | 1799 | OTHER CONTROL PROBLEMS         |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 7/9/1984  | 22:30 | 7/10/1984 | 1:30  | 3     | 1710 | COMB/STM CONDITION CONTROLS    |

|     |     |              |      |     |    |            |       |            |       |        |      |                               |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|-------------------------------|
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 7/11/1984  | 3:40  | 7/11/1984  | 17:10 | 13.5   | 310  | PULVERIZER MILL               |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 7/12/1984  | 11:33 | 7/13/1984  | 11:33 | 24     | 9290 | OTHER FUEL QUALITY PROBLEMS   |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 7/13/1984  | 11:22 | 7/14/1984  | 0:50  | 13.46  | 1999 | UNKNOWN                       |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 7/14/1984  | 0:50  | 7/15/1984  | 2:24  | 25.56  | 250  | PULVERIZER FDRS               |
| 521 | 188 | Oak Creek #8 | 000* | 180 | D1 | 7/18/1984  | 6:55  | 7/18/1984  | 11:35 | 4.66   | 250  | PULVERIZER FDRS               |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 7/22/1984  | 20:00 | 7/23/1984  | 11:20 | 15.33  | 290  | PULV REDUCED CAP DUE TO WEAR  |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 7/27/1984  | 2:30  | 8/2/1984   | 5:15  | 146.75 | 310  | PULVR MILL NO. 83 AND 85      |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 8/2/1984   | 6:20  | 8/2/1984   | 10:33 | 4.21   | 250  | PULVERIZER FEEDER             |
| 521 | 188 | Oak Creek #8 | 000* | 245 | D1 | 8/2/1984   | 11:30 | 8/2/1984   | 23:00 | 11.5   | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 263 | D1 | 8/3/1984   | 10:30 | 8/3/1984   | 22:11 | 11.68  | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 80  | D1 | 8/4/1984   | 2:00  | 8/4/1984   | 9:45  | 7.75   | 1999 | BOILER PERFORMANCE TESTING    |
| 521 | 188 | Oak Creek #8 | 000* | 263 | D1 | 8/6/1984   | 7:00  | 8/6/1984   | 8:00  | 1      | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 8/9/1984   | 17:30 | 8/10/1984  | 4:50  | 11.33  | 310  | MILL PROBLEMS - 81 MILL       |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 8/10/1984  | 4:50  | 8/10/1984  | 12:15 | 7.41   | 310  | MILL PROBLEM - 81-83 MILL     |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 8/13/1984  | 10:00 | 8/13/1984  | 23:00 | 13     | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 8/22/1984  | 13:45 | 8/22/1984  | 15:07 | 1.36   | 250  | PULVERIZER FEEDER             |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 8/27/1984  | 9:15  | 8/27/1984  | 16:07 | 6.86   | 9270 | WET COAL                      |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 8/29/1984  | 3:31  | 9/1/1984   | 10:45 | 79.23  | 1040 | FIRST SUPHTR TUBE LEAK        |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 9/1/1984   | 10:45 | 9/2/1984   | 16:01 | 29.26  | 3680 | OTHER VOLTAGE TRANSFORMER     |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/2/1984   | 16:48 | 9/2/1984   | 22:12 | 5.4    | 890  | BOTTOM ASH SYSTEM             |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 9/2/1984   | 22:12 | 9/3/1984   | 15:30 | 17.29  | 1850 | BLR WATER CONDITION           |
| 521 | 188 | Oak Creek #8 | 000* | 205 | D1 | 9/4/1984   | 9:57  | 9/5/1984   | 1:25  | 15.46  | 880  | FLYASH HANDLING EQUIP         |
| 521 | 188 | Oak Creek #8 | 000* | 230 | D1 | 9/5/1984   | 7:35  | 9/5/1984   | 23:00 | 15.41  | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 9/6/1984   | 8:15  | 9/7/1984   | 18:18 | 34.05  | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/7/1984   | 18:18 | 9/10/1984  | 2:53  | 56.58  | 1050 | SECOND SUPERHEATER            |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 9/10/1984  | 2:53  | 9/10/1984  | 18:35 | 15.7   | 1400 | FD FAN                        |
| 521 | 188 | Oak Creek #8 | 000* | 180 | D1 | 9/10/1984  | 18:35 | 9/10/1984  | 21:25 | 2.83   | 1400 | FD FAN                        |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 9/10/1984  | 21:25 | 9/11/1984  | 9:20  | 11.91  | 1400 | FD FAN                        |
| 521 | 188 | Oak Creek #8 | 000* | 195 | D1 | 9/11/1984  | 9:20  | 9/11/1984  | 23:00 | 13.66  | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 9/20/1984  | 6:00  | 9/20/1984  | 17:10 | 11.16  | 1005 | GENERATING TUBES              |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 9/20/1984  | 17:10 | 9/23/1984  | 10:51 | 65.68  | 1005 | GENERATING TUBES              |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 9/23/1984  | 10:51 | 9/24/1984  | 5:19  | 18.46  | 1850 | BOILER WATER CONDITION        |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 9/26/1984  | 10:15 | 9/26/1984  | 13:15 | 3      | 9270 | WET COAL                      |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 9/27/1984  | 18:00 | 9/28/1984  | 23:30 | 29.5   | 250  | PULVERIZER FEEDER             |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/28/1984  | 21:12 | 9/30/1984  | 6:55  | 33.71  | 1005 | GENERATING TUBE               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/30/1984  | 6:55  | 9/30/1984  | 8:05  | 1.16   | 3414 | FDWTR PUMP LOCAL CONTROLS     |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/30/1984  | 8:05  | 9/30/1984  | 10:32 | 2.45   | 3414 | GENERATING TUBE               |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 9/30/1984  | 10:32 | 9/30/1984  | 20:15 | 9.71   | 1850 | BOILER WATER CONDITION        |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 10/7/1984  | 8:10  | 10/7/1984  | 11:43 | 3.55   | 310  | MILL PROBLEMS                 |
| 521 | 188 | Oak Creek #8 | 000* | 252 | D1 | 10/9/1984  | 10:55 | 10/9/1984  | 19:50 | 8.91   | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 10/9/1984  | 19:50 | 10/9/1984  | 20:35 | 0.75   | 320  | FOREIGN OBJECT IN MILL        |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 10/9/1984  | 20:35 | 10/10/1984 | 21:11 | 24.6   | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 10/10/1984 | 21:11 | 10/10/1984 | 21:50 | 0.65   | 320  | FOREIGN OBJECT IN MILL        |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 10/10/1984 | 21:50 | 10/11/1984 | 18:59 | 21.15  | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 10/11/1984 | 18:59 | 10/12/1984 | 1:30  | 6.51   | 310  | 83 & 81 MILLS PROBLEMS        |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 10/12/1984 | 1:30  | 10/12/1984 | 12:52 | 11.36  | 8560 | ELECTROSTATIC PRECIP PROBLEMS |

|     |     |              |      |     |    |            |       |            |       |        |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---------------------------------|
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/12/1984 | 16:40 | 10/17/1984 | 6:46  | 110.1  | 3414 | GENERATING TUBE LEAK            |
| 521 | 188 | Oak Creek #8 | 000* | 185 | D1 | 10/17/1984 | 6:46  | 10/18/1984 | 1:30  | 18.73  | 1850 | BLR WATER CONDITION             |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 10/18/1984 | 20:50 | 10/20/1984 | 2:45  | 29.91  | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 10/21/1984 | 6:05  | 10/21/1984 | 10:15 | 4.16   | 330  | PULVERIZER COAL LEAK            |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 10/22/1984 | 4:15  | 10/23/1984 | 5:00  | 24.75  | 110  | WET COAL                        |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/26/1984 | 14:16 | 10/29/1984 | 1:39  | 59.38  | 3414 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 10/29/1984 | 1:39  | 10/29/1984 | 14:00 | 12.35  | 1850 | BOILER WATER CONDITION          |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 11/2/1984  | 16:00 | 11/2/1984  | 17:00 | 1      | 350  | PULVERIZED FUEL & AIR PIPING    |
| 521 | 188 | Oak Creek #8 | 000* | 257 | D1 | 11/4/1984  | 7:15  | 11/5/1984  | 1:45  | 18.5   | 110  | WET COAL                        |
| 521 | 188 | Oak Creek #8 | 000* | 269 | D1 | 11/7/1984  | 17:50 | 11/8/1984  | 5:34  | 11.73  | 9270 | WET COAL                        |
| 521 | 188 | Oak Creek #8 | 000* | 262 | D1 | 11/9/1984  | 9:30  | 11/10/1984 | 1:45  | 16.25  | 9270 | WET COAL                        |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/10/1984 | 18:59 | 11/18/1984 | 0:25  | 173.43 | 3414 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 | *    |     | SF | 11/18/1984 | 0:25  | 11/18/1984 | 5:00  | 4.58   | 8560 | ELECTROSTATIC PRECIP PROBLEM    |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/18/1984 | 5:00  | 11/18/1984 | 16:12 | 11.2   | 3414 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/18/1984 | 17:56 | 11/18/1984 | 18:39 | 0.71   | 9900 | OPERATOR ERROR                  |
| 521 | 188 | Oak Creek #8 | 000* | 262 | D1 | 11/21/1984 | 10:45 | 11/22/1984 | 13:05 | 26.33  | 110  | WET COAL                        |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 11/26/1984 | 21:00 | 11/26/1984 | 22:30 | 1.5    | 330  | PULVERIZED COAL LEAK            |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 12/2/1984  | 4:50  | 12/2/1984  | 16:40 | 11.83  | 250  | PULVERIZER FEEDER               |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 12/12/1984 | 20:30 | 12/12/1984 | 23:30 | 3      | 330  | PULVERIZED COAL LEAK            |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 12/16/1984 | 16:20 | 12/16/1984 | 23:00 | 6.66   | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 12/17/1984 | 8:00  | 12/17/1984 | 17:00 | 9      | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 12/18/1984 | 8:00  | 12/18/1984 | 23:30 | 15.5   | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/21/1984 | 9:57  | 12/23/1984 | 9:17  | 47.33  | 1150 | SECOND SUPERHEATER              |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/23/1984 | 9:17  | 12/23/1984 | 12:12 | 2.91   | 1150 | SECOND SUPERHEATER              |
| 521 | 188 | Oak Creek #8 | 000* | 235 | D1 | 12/28/1984 | 13:35 | 12/28/1984 | 16:05 | 2.5    | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 | 000* | 125 | D4 | 1/5/1985   | 5:07  | 1/5/1985   | 12:48 | 7.68   | 1420 | OTHER FD FAN PROBLEMS           |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 1/9/1985   | 5:38  | 1/12/1985  | 2:18  | 68.66  | 1050 | SECOND SUPERHEATER              |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 1/13/1985  | 14:25 | 1/13/1985  | 16:40 | 2.25   | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 | 000* | 252 | D1 | 1/14/1985  | 17:30 | 1/15/1985  | 8:45  | 15.25  | 8560 | HIGH OPACITY                    |
| 521 | 188 | Oak Creek #8 | 000* | 242 | D1 | 1/15/1985  | 8:45  | 1/15/1985  | 19:05 | 10.33  | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 | 000* | 242 | D1 | 1/16/1985  | 4:00  | 1/16/1985  | 13:25 | 9.41   | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 1/16/1985  | 14:05 | 1/16/1985  | 14:25 | 0.33   | 250  | PULVERIZER FEEDER               |
| 521 | 188 | Oak Creek #8 | 000* | 242 | D1 | 1/18/1985  | 7:43  | 1/18/1985  | 10:25 | 2.7    | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 1/19/1985  | 20:44 | 1/19/1985  | 21:29 | 0.75   | 770  | FROZ. SENSING BLR CIR PMP       |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 1/19/1985  | 21:42 | 1/20/1985  | 0:38  | 2.93   | 9900 | OPER. ERROR-LOST EXCITATION     |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 1/20/1985  | 3:45  | 1/20/1985  | 4:07  | 0.36   | 770  | FROZ. SENSING BLR CIR PMP       |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 1/20/1985  | 4:15  | 1/20/1985  | 7:37  | 3.36   | 9900 | OPER. ERROR-LO WTR LEVEL        |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 1/20/1985  | 20:24 | 1/20/1985  | 22:24 | 2      | 4630 | STATOR COOLING SENS LINE FROZEN |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 1/25/1985  | 17:35 | 1/29/1985  | 1:37  | 80.03  | 1005 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 2/4/1985   | 6:55  | 2/4/1985   | 9:23  | 2.46   | 880  | FLYASH HANDLING                 |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 2/7/1985   | 23:48 | 2/10/1985  | 13:58 | 62.16  | 1040 | SUPERHEATER PENDANT             |
| 521 | 188 | Oak Creek #8 | 000* | 255 | D1 | 2/18/1985  | 7:00  | 2/19/1985  | 1:00  | 18     | 9280 | FROZEN COAL                     |
| 521 | 188 | Oak Creek #8 | 000* | 252 | D1 | 2/19/1985  | 8:00  | 2/19/1985  | 15:00 | 7      | 9280 | FROZEN COAL                     |
| 521 | 188 | Oak Creek #8 | 000* | 180 | D1 | 2/23/1985  | 10:20 | 2/23/1985  | 20:30 | 10.16  | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 | 000* | 230 | D1 | 3/14/1985  | 16:15 | 3/14/1985  | 21:00 | 4.75   | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 |      |     | MO | 3/22/1985  | 16:46 | 3/24/1985  | 21:41 | 52.91  | 1005 | GENERATING TUBE                 |

|     |     |              |      |     |    |            |       |            |       |         |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|---------|------|---------------------------------|
| 521 | 188 | Oak Creek #8 | 000* | 185 | D1 | 4/7/1985   | 10:00 | 4/7/1985   | 17:45 | 7.75    | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 |      |     | PO | 4/12/1985  | 18:06 | 7/5/1985   | 20:20 | 2018.23 | 1800 | ANNUAL OUTAGE                   |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 7/6/1985   | 0:47  | 7/6/1985   | 1:29  | 0.7     | 4261 | CONTROL VALVE PROBLEM           |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 7/6/1985   | 2:20  | 7/6/1985   | 5:18  | 2.96    | 740  | 82 BOILER BOOSTER PUMP TRIP     |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 7/7/1985   | 18:05 | 7/10/1985  | 3:20  | 57.25   | 1005 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 7/13/1985  | 13:30 | 7/13/1985  | 21:32 | 8.03    | 3410 | FEEDWATER PUMP                  |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 7/13/1985  | 21:32 | 7/15/1985  | 9:15  | 35.71   | 1080 | ECONOMIZER                      |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 7/15/1985  | 9:16  | 7/17/1985  | 1:42  | 40.43   | 3644 | PROTECTION DEVICES              |
| 521 | 188 | Oak Creek #8 | 000* | 135 | D1 | 7/21/1985  | 21:00 | 7/22/1985  | 6:00  | 9       | 1470 | I.D. FAN MTR & DRIVES           |
| 521 | 188 | Oak Creek #8 | 000* | 255 | D1 | 8/1/1985   | 10:30 | 8/1/1985   | 10:55 | 0.41    | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 8/5/1985   | 17:30 | 8/5/1985   | 22:20 | 4.83    | 250  | PULVERIZER FEEDER PROBLEMS      |
| 521 | 188 | Oak Creek #8 | 000* | 266 | D1 | 8/6/1985   | 11:30 | 8/10/1985  | 22:26 | 106.93  | 4261 | CONTROL VALVES                  |
| 521 | 188 | Oak Creek #8 |      |     | MO | 8/10/1985  | 22:26 | 8/19/1985  | 23:18 | 216.86  | 4261 | CONTROL VALVES                  |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 8/23/1985  | 18:50 | 8/26/1985  | 20:00 | 73.16   | 4261 | CONTROL VALVES                  |
| 521 | 188 | Oak Creek #8 |      |     | MO | 8/30/1985  | 23:27 | 8/31/1985  | 23:00 | 23.55   | 4240 | BEARINGS                        |
| 521 | 188 | Oak Creek #8 |      |     | RS | 8/31/1985  | 23:00 | 9/2/1985   | 21:24 | 46.4    | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 9/9/1985   | 18:57 | 9/13/1985  | 7:30  | 84.55   | 1005 | GENERATING TUBE LEAK            |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 9/13/1985  | 7:31  | 9/13/1985  | 13:49 | 6.3     | 4302 | TURBINE TRIP DEVICES            |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 9/27/1985  | 18:03 | 9/29/1985  | 19:40 | 49.61   | 1070 | SECOND REHEATER                 |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 9/29/1985  | 19:41 | 9/30/1985  | 6:59  | 11.3    | 1799 | BOILER CONTROLS                 |
| 521 | 188 | Oak Creek #8 |      |     | MO | 10/2/1985  | 14:04 | 10/2/1985  | 21:00 | 6.93    | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 188 | Oak Creek #8 |      |     | RS | 10/2/1985  | 21:00 | 10/3/1985  | 4:14  | 7.23    | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 10/11/1985 | 22:07 | 10/12/1985 | 3:39  | 5.53    | 1710 | COMBUSTION CONTROLS FSSS        |
| 521 | 188 | Oak Creek #8 | 000* | 253 | D1 | 10/23/1985 | 8:08  | 10/24/1985 | 3:00  | 18.86   | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 10/29/1985 | 10:00 | 10/29/1985 | 13:10 | 3.16    | 9900 | OPERATOR ERROR                  |
| 521 | 188 | Oak Creek #8 | 000* | 215 | D1 | 11/2/1985  | 15:00 | 11/3/1985  | 22:13 | 31.21   | 9270 | WET COAL                        |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 11/3/1985  | 22:13 | 11/5/1985  | 10:20 | 36.11   | 1070 | SECOND REHEATER                 |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 11/6/1985  | 10:30 | 11/6/1985  | 20:00 | 9.5     | 9270 | WET COAL                        |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 11/12/1985 | 11:38 | 11/12/1985 | 12:30 | 0.86    | 250  | 82 MILL FEEDER TRIP             |
| 521 | 188 | Oak Creek #8 | 000* | 180 | PD | 11/15/1985 | 23:40 | 11/16/1985 | 3:25  | 3.75    | 3230 | CIRCULATING WTR VLV REPLACEMENT |
| 521 | 188 | Oak Creek #8 | 000* | 255 | D1 | 11/25/1985 | 19:15 | 11/25/1985 | 22:15 | 3       | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 | 000* | 235 | D1 | 12/2/1985  | 5:00  | 12/2/1985  | 5:50  | 0.83    | 1850 | BLR WATER CONDITION             |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 12/14/1985 | 10:30 | 12/14/1985 | 15:30 | 5       | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 | 000* | 235 | D1 | 12/14/1985 | 15:30 | 12/15/1985 | 0:30  | 9       | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 12/28/1985 | 9:20  | 12/31/1985 | 19:50 | 82.5    | 290  | PULV. REDUCED CAPACITY          |
| 521 | 188 | Oak Creek #8 | 000* | 235 | D1 | 1/6/1986   | 22:00 | 1/7/1986   | 21:02 | 23.03   | 1070 | REHEAT LEAK-REDUCED PRESSURE    |
| 521 | 188 | Oak Creek #8 |      |     | MO | 1/7/1986   | 21:02 | 1/9/1986   | 12:00 | 38.96   | 1070 | REHEAT LEAK                     |
| 521 | 188 | Oak Creek #8 |      |     | MO | 1/9/1986   | 12:00 | 1/10/1986  | 9:00  | 21      | 890  | BOTTOM ASH SYSTEM               |
| 521 | 188 | Oak Creek #8 |      |     | MO | 1/10/1986  | 9:00  | 1/10/1986  | 19:26 | 10.43   | 1440 | AIR SUPPLY DAMPERS              |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 1/11/1986  | 10:31 | 1/12/1986  | 15:01 | 28.5    | 1710 | COMBUSTION CONTROLS FSSS        |
| 521 | 188 | Oak Creek #8 | 000* | 195 | D1 | 1/21/1986  | 9:30  | 1/21/1986  | 15:45 | 6.25    | 350  | PULVERIZED FUEL & AIR PIPING    |
| 521 | 188 | Oak Creek #8 |      |     | NC | 1/21/1986  | 15:45 | 1/23/1986  | 1:00  | 33.25   | 290  | PULVERIZER REDUCED CAPACITY     |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 1/23/1986  | 1:00  | 2/7/1986   | 4:00  | 363     | 740  | RECIRCULATING PUMP              |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 1/31/1986  | 2:00  | 1/31/1986  | 12:00 | 10      | 350  | PULVERIZED FUEL & AIR PIPING    |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 2/1/1986   | 2:30  | 2/2/1986   | 7:31  | 29.01   | 250  | PULVERIZER FEEDERS              |

WEPCO 40136

|     |     |              |      |     |    |           |       |           |          |         |      |                                 |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|----------|---------|------|---------------------------------|
| 521 | 188 | Oak Creek #8 | 000* | 190 | D2 | 2/2/1986  | 11:30 | 2/2/1986  | 17:30    | 6       | 350  | PULVERIZED FUEL AND AIR PIPING  |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D2 | 2/8/1986  | 10:55 | 2/9/1986  | 14:35    | 27.66   | 250  | PULVERIZER FEEDER               |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 2/9/1986  | 20:06 | 2/10/1986 | 21:00    | 24.9    | 9270 | WET COAL                        |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 2/10/1986 | 7:45  | 2/10/1986 | 12:30    | 4.75    | 350  | PULV FUEL & AIR PIPING          |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 2/10/1986 | 16:35 | 2/11/1986 | 11:23    | 18.79   | 9270 | WET COAL                        |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 2/11/1986 | 11:23 | 2/13/1986 | 8:41     | 45.3    | 9270 | WET COAL                        |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 2/13/1986 | 8:42  | 2/13/1986 | 11:30    | 2.8     | 770  | OTHER BLR RECIRCULATION PROBLEM |
| 521 | 188 | Oak Creek #8 |      |     | SF | 2/13/1986 | 11:30 | 2/16/1986 | 14:58    | 75.46   | 3440 | HI PRESS FEEDWATER HEATER       |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 2/17/1986 | 10:30 | 2/19/1986 | 3:30     | 41      | 280  | PULVERIZER FIRE                 |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 2/19/1986 | 3:30  | 2/24/1986 | 11:35    | 128.08  | 3440 | HI PRESS HTR TUBE LEAKS         |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 2/19/1986 | 7:00  | 2/19/1986 | 8:38     | 1.63    | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 188 | Oak Creek #8 | 000* | 190 | PD | 2/22/1986 | 8:10  | 2/24/1986 | 0:25     | 40.25   | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 2/24/1986 | 11:35 | 2/28/1986 | 11:30    | 95.91   | 3501 | HEATER DRAIN PUMPS              |
| 521 | 188 | Oak Creek #8 | 000* | 230 | D1 | 2/25/1986 | 19:00 | 2/26/1986 | 5:30     | 10.5    | 1850 | SILICA-BLR WTR CONDITION        |
| 521 | 188 | Oak Creek #8 | 000* | 187 | D1 | 2/28/1986 | 11:00 | 2/28/1986 | 11:45    | 0.75    | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 3/7/1986  | 5:56  | 3/9/1986  | 10:40    | 52.73   | 1005 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 3/13/1986 | 10:25 | 3/13/1986 | 17:00    | 6.58    | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 3/14/1986 | 10:45 | 3/14/1986 | 15:25    | 4.66    | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 3/15/1986 | 6:55  | 3/15/1986 | 17:00    | 10.08   | 250  | PULVERIZER FEEDER               |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 3/18/1986 | 8:00  | 3/18/1986 | 11:45    | 3.75    | 340  | OTHER PULVERIZER PROBLEMS       |
| 521 | 188 | Oak Creek #8 | 000* | 55  | D1 | 3/20/1986 | 2:00  | 3/20/1986 | 6:12     | 4.19    | 9270 | WET COAL                        |
| 521 | 188 | Oak Creek #8 | 000* | 55  | D1 | 3/21/1986 | 7:25  | 3/22/1986 | 0:12     | 16.78   | 9270 | WET COAL                        |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 3/22/1986 | 0:12  | 3/22/1986 | 1:35     | 1.38    | 9900 | OPERATOR ERROR                  |
| 521 | 188 | Oak Creek #8 | 000* | 55  | D1 | 3/22/1986 | 1:35  | 3/22/1986 | 5:17     | 3.7     | 9270 | WET COAL                        |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 3/22/1986 | 5:17  | 5/3/1986  | 12:51    | 1015.56 | 1800 | ANNUAL OUTAGE                   |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 5/3/1986  | 19:17 | 5/4/1986  | 15:30    | 20.21   | 4261 | SET CONTROL VALVES              |
| 521 | 188 | Oak Creek #8 | 000* | 155 | D1 | 5/5/1986  | 22:00 | 5/6/1986  | 13:30    | 15.5    | 3412 | 82 BFP MTR BRG VIB              |
| 521 | 188 | Oak Creek #8 | 000* | 155 | D1 | 5/6/1986  | 13:30 | 5/6/1986  | 15:30    | 2       | 330  | 81 MILL PULV COAL LEAK          |
| 521 | 188 | Oak Creek #8 | 000* | 205 | D1 | 5/7/1986  | 4:30  | 5/7/1986  | 12:00    | 7.5     | 330  | 83 MILL PULV COAL LEAK          |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 5/9/1986  | 23:58 | 5/10/1986 | 23:56    | 23.96   | 4030 | BALANCE TURBINE                 |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D2 | 5/28/1986 | 2:00  | 5/28/1986 | 24:00:00 | 22      | 3441 | 86 HI PRESS HTR HEAD LEAK       |
| 521 | 188 | Oak Creek #8 | 000* | 155 | PD | 6/1/1986  | 5:30  | 6/1/1986  | 12:30    | 7       | 3415 | FDWTR PUMP/DRIVE LUBE OIL SYS   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/4/1986  | 13:15 | 6/7/1986  | 18:41    | 77.43   | 1005 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 | 000* | 170 | D1 | 6/12/1986 | 13:20 | 6/12/1986 | 20:20    | 7       | 3411 | FEEDWATER PUMP MOTOR            |
| 521 | 188 | Oak Creek #8 | 000* | 170 | D1 | 6/13/1986 | 19:45 | 6/15/1986 | 15:45    | 44      | 3411 | 82 FEEDWTR PUMP MTR             |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 6/19/1986 | 15:27 | 6/19/1986 | 18:48    | 3.35    | 740  | #83 BOILER BOOSTER PUMP         |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/19/1986 | 14:28 | 6/19/1986 | 15:27    | 0.98    | 1799 | BBP DIFF PRESS LOW TRIP         |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 6/20/1986 | 19:21 | 6/23/1986 | 0:50     | 53.48   | 1040 | SUPERHEAT LEAK                  |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 6/23/1986 | 22:16 | 6/25/1986 | 22:13    | 47.95   | 1040 | SUPERHEAT LEAK                  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 7/15/1986 | 12:15 | 7/18/1986 | 9:39     | 69.4    | 1005 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 | 000* | 275 | D1 | 7/28/1986 | 15:15 | 7/29/1986 | 1:45     | 10.5    | 9270 | WET COAL                        |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 7/30/1986 | 3:46  | 7/31/1986 | 4:37     | 24.85   | 1005 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 | 000* | 150 | PD | 8/2/1986  | 0:01  | 8/2/1986  | 3:40     | 3.65    | 3415 | 81 FEEDWATER PUMP               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 8/3/1986  | 4:21  | 8/4/1986  | 10:39    | 30.3    | 1005 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 8/15/1986 | 20:13 | 8/21/1986 | 8:01     | 131.8   | 1005 | GENERATING TUBE LEAK            |

|     |     |              |      |     |    |            |          |            |          |         |      |                               |
|-----|-----|--------------|------|-----|----|------------|----------|------------|----------|---------|------|-------------------------------|
| 521 | 188 | Oak Creek #8 | 000* | 245 | D1 | 9/2/1986   | 16:30    | 9/2/1986   | 22:54    | 6.4     | 330  | PULVERIZED COAL PIPE LEAK     |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 9/5/1986   | 23:38    | 9/6/1986   | 18:42    | 19.06   | 4281 | #81 LUBE OIL COOLER           |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/18/1986  | 1:55     | 9/20/1986  | 9:25     | 55.5    | 1070 | SECOND REHEATER               |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 9/21/1986  | 14:37    | 9/21/1986  | 22:00    | 7.38    | 250  | PULVERIZER FEEDER             |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 9/24/1986  | 5:35     | 9/24/1986  | 9:00     | 3.41    | 9250 | LOW BTU COAL                  |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 9/24/1986  | 9:00     | 9/24/1986  | 12:00    | 3       | 280  | PULVERIZER FIRE-83 MILL       |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 9/24/1986  | 12:00    | 9/25/1986  | 9:30     | 21.5    | 9250 | LOW BTU COAL                  |
| 521 | 188 | Oak Creek #8 | 000* | 195 | D1 | 9/25/1986  | 9:30     | 9/26/1986  | 3:00     | 17.5    | 310  | PULVERIZER MILL               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/25/1986  | 14:44    | 9/25/1986  | 16:34    | 1.83    | 250  | PULVERIZER FEEDER PROBLEMS    |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 9/26/1986  | 3:00     | 9/28/1986  | 11:30    | 56.5    | 9250 | LOW BTU COAL                  |
| 521 | 188 | Oak Creek #8 | *    | 150 | PD | 10/4/1986  | 22:45    | 10/5/1986  | 9:40     | 10.91   | 3416 | BFP OR SEAL WATER             |
| 521 | 188 | Oak Creek #8 | *    | 235 | D1 | 10/7/1986  | 18:40    | 10/7/1986  | 23:18    | 4.63    | 9620 | PARTICULATE STACK EMISSIONS   |
| 521 | 188 | Oak Creek #8 | *    | 260 | D1 | 10/8/1986  | 7:10     | 10/10/1986 | 1:30     | 42.33   | 9630 | OPACITY-FOSSIL STEAM UNITS    |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/17/1986 | 10:07    | 10/20/1986 | 4:06     | 65.98   | 1005 | GENERATING TUBE               |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 10/30/1986 | 21:38    | 10/31/1986 | 11:31    | 13.88   | 8560 | PRECIPITATOR WIRE GROUND      |
| 521 | 188 | Oak Creek #8 | *    | 260 | D1 | 11/3/1986  | 8:15     | 11/3/1986  | 23:05    | 14.83   | 9630 | OPACITY                       |
| 521 | 188 | Oak Creek #8 | *    | 175 | D1 | 11/7/1986  | 12:45    | 11/7/1986  | 20:40    | 7.91    | 250  | PULVERIZER FEEDER             |
| 521 | 188 | Oak Creek #8 | *    | 175 | D1 | 11/13/1986 | 9:25     | 11/13/1986 | 10:00    | 0.58    | 265  | 81 AIR HTR ELE MTR DRIVE CPLG |
| 521 | 188 | Oak Creek #8 | *    | 135 | D1 | 11/14/1986 | 6:16     | 11/14/1986 | 7:00     | 0.73    | 265  | 81 AIR HTR ELE MTR DRIVE CPLG |
| 521 | 188 | Oak Creek #8 | *    | 200 | D1 | 11/19/1986 | 20:30    | 11/20/1986 | 6:27     | 9.95    | 250  | PULVERIZER FEEDER PROBLEM     |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/15/1986 | 11:21    | 12/15/1986 | 12:01    | 0.66    | 9910 | MAINTENANCE ERROR             |
| 521 | 188 | Oak Creek #8 | *    |     | U3 | 1/16/1987  | 21:17    | 1/17/1987  | 18:44    | 21.45   | 1005 | GENERATING TUBE               |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 1/19/1987  | 22:15    | 1/20/1987  | 8:40     | 10.41   | 250  | PULVERIZER FEEDER             |
| 521 | 188 | Oak Creek #8 | *    |     | NC | 1/26/1987  | 22:15    | 1/27/1987  | 3:27     | 5.2     | 310  | PULVERIZER PROBLEM            |
| 521 | 188 | Oak Creek #8 | *    |     | NC | 2/1/1987   | 5:30     | 2/1/1987   | 17:00    | 11.5    | 350  | PULV FUEL & AIR PIPING        |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 2/7/1987   | 2:53     | 3/20/1987  | 24:00:00 | 1005.11 | 1800 | ANNUAL OUTAGE                 |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 3/20/1987  | 24:00:00 | 3/21/1987  | 12:45    | 12.75   | 4520 | STATOR COOLING SYSTEM         |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 3/22/1987  | 5:02     | 3/22/1987  | 11:53    | 6.85    | 4302 | HYDRAULIC OIL PROBLEM         |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 3/23/1987  | 19:34    | 3/23/1987  | 20:05    | 0.51    | 410  | BURNER PROBLEMS               |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 3/23/1987  | 21:53    | 3/25/1987  | 7:41     | 33.8    | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 192 | D1 | 3/27/1987  | 12:00    | 3/29/1987  | 2:36     | 38.59   | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 3/29/1987  | 2:36     | 3/29/1987  | 4:43     | 2.11    | 4460 | TURB OVERSPEED TRIP TEST      |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 3/29/1987  | 4:44     | 3/29/1987  | 22:00    | 17.26   | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 180 | D1 | 3/29/1987  | 22:00    | 4/3/1987   | 21:59    | 119.98  | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 4/3/1987   | 21:59    | 4/5/1987   | 22:01    | 48.03   | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 4/14/1987  | 17:00    | 4/16/1987  | 11:45    | 42.75   | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 205 | D1 | 4/16/1987  | 11:45    | 4/21/1987  | 0:41     | 108.93  | 8560 | ELECTROSTATIC PRECIP PROBLEMS |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 4/21/1987  | 0:41     | 4/24/1987  | 6:00     | 77.31   | 4264 | COMBINED INTERCEPT VLVS       |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 4/24/1987  | 6:00     | 4/25/1987  | 5:44     | 23.73   | 1130 | REPL SLAG WEAR STRIPS         |
| 521 | 188 | Oak Creek #8 | 000* | 220 | D1 | 4/28/1987  | 16:00    | 4/29/1987  | 2:25     | 10.41   | 250  | PULV FEEDER                   |
| 521 | 188 | Oak Creek #8 | 000* | 250 | PD | 4/29/1987  | 13:45    | 4/29/1987  | 20:15    | 6.5     | 4490 | HEAT RATE TEST                |
| 521 | 188 | Oak Creek #8 | *    |     | NC | 5/8/1987   | 23:00    | 5/10/1987  | 11:00    | 36      | 340  | OTHER PULVERIZER PROBLEMS     |
| 521 | 188 | Oak Creek #8 | *    |     | NC | 5/10/1987  | 15:15    | 5/10/1987  | 19:10    | 3.91    | 310  | PULVERIZER MILLS              |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 5/13/1987  | 10:30    | 5/13/1987  | 14:05    | 3.58    | 3501 | HEATER DRAIN PMPS             |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 5/14/1987  | 10:45    | 5/14/1987  | 12:15    | 1.5     | 3501 | HEATER DRAIN PMPS             |
| 521 | 188 | Oak Creek #8 | *    |     | NC | 5/30/1987  | 23:00    | 5/31/1987  | 5:05     | 6.08    | 330  | PULVERIZER COAL LEAK          |



|     |     |              |      |     |    |            |       |            |          |         |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|---------|------|---------------------------------|
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 6/8/1987   | 13:05 | 6/8/1987   | 13:50    | 0.75    | 3501 | HTR DRN PMPS OOS                |
| 521 | 188 | Oak Creek #8 | 000* | 140 | D1 | 6/8/1987   | 17:00 | 6/8/1987   | 19:00    | 2       | 1457 | CHANGE OIL IN 82 ID FAN         |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 6/15/1987  | 0:29  | 6/16/1987  | 17:57    | 41.46   | 1040 | SUPERHEAT LEAK                  |
| 521 | 188 | Oak Creek #8 |      |     | NC | 6/17/1987  | 22:15 | 6/18/1987  | 6:00     | 7.75    | 310  | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 |      |     | NC | 6/18/1987  | 22:15 | 6/19/1987  | 5:40     | 7.41    | 310  | PULV MILLS #84 MILL PLOW & ROLL |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 6/20/1987  | 1:32  | 6/20/1987  | 3:28     | 1.93    | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 6/23/1987  | 22:45 | 7/2/1987   | 17:00    | 210.25  | 740  | 83 BBP                          |
| 521 | 188 | Oak Creek #8 | 000* | 145 | D1 | 7/2/1987   | 17:00 | 7/2/1987   | 20:17    | 3.28    | 8560 | ELECTROSTATIC PRECIP PROBLEM    |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 7/2/1987   | 20:17 | 7/3/1987   | 4:17     | 8       | 8560 | ELECTROSTATIC PRECIP PROBLEMS   |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 7/3/1987   | 4:17  | 7/5/1987   | 23:59    | 67.69   | 740  | 83 BLR BOOSTER PMP              |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 7/7/1987   | 0:09  | 7/8/1987   | 12:02    | 35.88   | 1050 | SECOND SUPERHEATER              |
| 521 | 188 | Oak Creek #8 |      |     | NC | 7/10/1987  | 0:15  | 7/10/1987  | 5:10     | 4.91    | 1410 | FD FAN MOTORS                   |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 7/10/1987  | 12:50 | 7/11/1987  | 0:42     | 11.86   | 9630 | OPACITY FOSSIL STEAM UNITS      |
| 521 | 188 | Oak Creek #8 |      |     | NC | 7/11/1987  | 0:42  | 7/11/1987  | 4:45     | 4.05    | 1410 | FD FAN MOTORS                   |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 7/11/1987  | 9:30  | 7/12/1987  | 1:50     | 16.33   | 9630 | OPACITY FOSSIL STEAM UNITS      |
| 521 | 188 | Oak Creek #8 |      |     | NC | 7/18/1987  | 2:00  | 7/18/1987  | 6:00     | 4       | 350  | PULV FUEL AND AIR PIPING        |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 7/24/1987  | 12:15 | 7/25/1987  | 2:36     | 14.35   | 9630 | OPACITY-FOSSIL STEAM UNITS      |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 8/2/1987   | 5:38  | 8/3/1987   | 4:14     | 22.6    | 1005 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 | 000* | 220 | D1 | 8/6/1987   | 9:52  | 8/6/1987   | 11:40    | 1.8     | 8550 | PRECIPITATOR FOULING            |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 8/6/1987   | 11:40 | 8/6/1987   | 23:00    | 11.33   | 8550 | PRECIPITATOR FOULING            |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 8/7/1987   | 8:30  | 8/7/1987   | 14:05    | 5.58    | 8550 | PRECIPITATOR FOULING            |
| 521 | 188 | Oak Creek #8 | 000* | 220 | D1 | 8/7/1987   | 14:05 | 8/8/1987   | 2:25     | 12.33   | 8550 | PRECIPITATOR FOULING            |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 8/8/1987   | 2:25  | 8/10/1987  | 3:35     | 49.16   | 8550 | ELECTROSTATIC PRECIP FOULING    |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 8/13/1987  | 19:30 | 8/14/1987  | 6:00     | 10.5    | 8550 | ELECTROSTATIC PRECIP FOULING    |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 8/14/1987  | 12:30 | 8/14/1987  | 22:00    | 9.5     | 8550 | PRECIPITATOR FOULING            |
| 521 | 188 | Oak Creek #8 | 000* | 270 | D1 | 8/14/1987  | 22:00 | 8/14/1987  | 24:00:00 | 2       | 9270 | WET COAL                        |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 8/15/1987  | 10:15 | 8/15/1987  | 13:30    | 3.25    | 9270 | WET COAL                        |
| 521 | 188 | Oak Creek #8 | 000* | 258 | D1 | 8/17/1987  | 8:00  | 8/17/1987  | 12:00    | 4       | 8550 | PRECIP FOULING                  |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 8/28/1987  | 18:26 | 8/30/1987  | 17:11    | 46.75   | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | *    |     | U3 | 9/2/1987   | 22:09 | 9/3/1987   | 12:00    | 13.85   | 8550 | PRECIPITATOR FOULING            |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 9/3/1987   | 12:00 | 9/8/1987   | 4:00     | 112     | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 |      |     | U2 | 10/6/1987  | 22:09 | 10/8/1987  | 10:05    | 35.93   | 1050 | SECOND SUPERHEATER TUBE LEAK    |
| 521 | 188 | Oak Creek #8 |      |     | SF | 10/8/1987  | 10:05 | 10/8/1987  | 14:48    | 4.71    | 4420 | HI VIBRATION 2 BRG              |
| 521 | 188 | Oak Creek #8 | 000* | 180 | D1 | 10/10/1987 | 9:50  | 10/10/1987 | 19:58    | 10.13   | 8550 | PRECIP FOULING                  |
| 521 | 188 | Oak Creek #8 |      |     | MO | 10/10/1987 | 19:58 | 10/11/1987 | 17:57    | 21.98   | 8550 | ELECTROSTATIC PRECIP FOULING    |
| 521 | 188 | Oak Creek #8 |      |     | U1 | 10/14/1987 | 4:24  | 10/14/1987 | 4:55     | 0.51    | 9910 | MAINTENANCE ERROR.              |
| 521 | 188 | Oak Creek #8 |      |     | MO | 11/1/1987  | 7:56  | 11/4/1987  | 21:59    | 86.05   | 4261 | CONTROL VALVES                  |
| 521 | 188 | Oak Creek #8 |      |     | MO | 11/13/1987 | 21:39 | 11/15/1987 | 9:29     | 35.83   | 1005 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 | 000* | 170 | D2 | 11/25/1987 | 7:00  | 11/25/1987 | 9:56     | 2.93    | 1005 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 |      |     | MO | 11/25/1987 | 9:56  | 11/29/1987 | 24:00:00 | 110.06  | 1005 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 |      |     | MO | 11/30/1987 | 20:08 | 12/1/1987  | 21:26    | 49.3    | 8580 | MECHANICAL PRECIP PROBLEMS      |
| 521 | 188 | Oak Creek #8 |      |     | U2 | 12/3/1987  | 0:32  | 12/4/1987  | 2:42     | 26.16   | 1070 | SECOND REHEATER TUBE            |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 12/4/1987  | 13:18 | 12/4/1987  | 15:15    | 1.95    | 3410 | 73 LP BLR FD PMP                |
| 521 | 188 | Oak Creek #8 |      |     | RS | 12/24/1987 | 2:26  | 12/31/1987 | 24:00:00 | 189.56  | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 |      |     | RS | 1/1/1988   | 0:01  | 1/2/1988   | 24:00:00 | 47.98   | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 1/3/1988   | 0:01  | 5/16/1988  | 21:52    | 3213.85 | 4400 | ANNUAL OUTAGE                   |

WEPCO 40139

|     |     |              |      |     |    |            |       |            |          |        |      |                                |
|-----|-----|--------------|------|-----|----|------------|-------|------------|----------|--------|------|--------------------------------|
| 521 | 188 | Oak Creek #8 | *    |     | PO | 5/16/1988  | 21:54 | 5/17/1988  | 4:37     | 6.71   | 4420 | HIGH VIBRATION                 |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 5/17/1988  | 4:57  | 5/17/1988  | 13:35    | 8.63   | 4420 | HIGH VIBRATION                 |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 5/18/1988  | 11:27 | 5/19/1988  | 8:48     | 21.35  | 1999 | BOILER FEED PROBLEMS           |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 5/20/1988  | 1:22  | 5/20/1988  | 3:16     | 1.9    | 4400 | ANNUAL OUTAGE.                 |
| 521 | 188 | Oak Creek #8 | 000* | 130 | D1 | 5/21/1988  | 2:10  | 5/21/1988  | 23:25    | 21.25  | 8560 | ELECTROSTATIC PRECIP PROB.     |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 5/21/1988  | 23:25 | 5/22/1988  | 14:21    | 14.93  | 8560 | ELECTROSTATIC PRECIP PROB.     |
| 521 | 188 | Oak Creek #8 | 000* | 215 | D1 | 5/23/1988  | 12:00 | 5/23/1988  | 17:50    | 5.83   | 8560 | ELECTROSTATIC PRECIP PROB.     |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 5/24/1988  | 10:15 | 5/24/1988  | 12:00    | 1.75   | 8560 | ELECTROSTATIC PRECIP PROB.     |
| 521 | 188 | Oak Creek #8 | 000* | 255 | D1 | 6/3/1988   | 10:40 | 6/3/1988   | 14:45    | 4.08   | 4261 | CONTROL VALVE                  |
| 521 | 188 | Oak Creek #8 | 000* | 180 | PD | 6/3/1988   | 14:45 | 6/3/1988   | 15:40    | 0.91   | 4261 | #4 CONTROL VALVE               |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 6/8/1988   | 18:04 | 6/12/1988  | 20:35    | 98.51  | 4260 | MAIN STOP VLVS STEAM STRAINERS |
| 521 | 188 | Oak Creek #8 |      |     | MO | 7/23/1988  | 20:31 | 7/24/1988  | 5:31     | 9      | 8560 | PRECIP WIRE GROUND             |
| 521 | 188 | Oak Creek #8 |      |     | PO | 8/6/1988   | 22:09 | 8/7/1988   | 6:30     | 8.35   | 8560 | PRECIPITATOR WIRE GROUND       |
| 521 | 188 | Oak Creek #8 | *    | 210 | PD | 8/19/1988  | 2:00  | 8/19/1988  | 15:53    | 13.88  | 740  | BOILER RECIRCULATION PUMPS     |
| 521 | 188 | Oak Creek #8 |      |     | MO | 8/19/1988  | 15:53 | 8/20/1988  | 21:35    | 29.7   | 740  | BLR RECIRCULATION PUMPS        |
| 521 | 188 | Oak Creek #8 |      |     | RS | 8/22/1988  | 16:42 | 8/28/1988  | 12:05    | 139.38 | 0    | Reserve Shutdown               |
| 521 | 188 | Oak Creek #8 |      |     | MO | 9/15/1988  | 9:31  | 9/16/1988  | 22:16    | 36.75  | 1005 | GENERATING TUBE                |
|     |     |              |      |     |    |            |       |            |          |        |      | DESUPERHEATER ATTEMPERATOR     |
| 521 | 188 | Oak Creek #8 | *    | 150 | D1 | 9/17/1988  | 7:20  | 9/17/1988  | 11:45    | 4.41   | 620  | PROB                           |
| 521 | 188 | Oak Creek #8 | *    | 245 | D1 | 9/19/1988  | 10:12 | 9/19/1988  | 22:00    | 11.8   | 8560 | ELECTROSTATIC PRECIP PROBLEM   |
| 521 | 188 | Oak Creek #8 | *    | 260 | D1 | 9/26/1988  | 13:09 | 9/26/1988  | 21:00    | 7.85   | 8560 | ELECTROSTATIC PRECIP PROBLEMS  |
| 521 | 188 | Oak Creek #8 |      |     | NC | 10/1/1988  | 7:00  | 10/2/1988  | 4:00     | 21     | 1400 | 82 FORCED DRAFT FAN            |
| 521 | 188 | Oak Creek #8 |      |     | NC | 10/2/1988  | 4:30  | 10/2/1988  | 14:55    | 10.41  | 1400 | FORCED DRAFT FAN VIBRATION     |
| 521 | 188 | Oak Creek #8 |      |     | NC | 10/9/1988  | 5:30  | 10/9/1988  | 18:30    | 13     | 1400 | FORCED DRAFT FAN VIBRATION     |
| 521 | 188 | Oak Creek #8 |      |     | NC | 10/15/1988 | 5:15  | 10/15/1988 | 16:00    | 10.75  | 1400 | FORCED DRAFT FAN VIBRATION     |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 10/19/1988 | 8:15  | 10/19/1988 | 11:45    | 3.5    | 1799 | OTHER CONTROL PROBLEMS         |
| 521 | 188 | Oak Creek #8 |      |     | NC | 10/26/1988 | 0:45  | 10/26/1988 | 6:15     | 5.5    | 350  | REPLACING COAL PIPE            |
| 521 | 188 | Oak Creek #8 | 000* | 164 | D1 | 10/26/1988 | 6:15  | 10/26/1988 | 6:34     | 0.31   | 350  | REPLACING COAL PIPE            |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 11/1/1988  | 11:55 | 11/1/1988  | 12:25    | 0.5    | 250  | PULVERIZER FEEDER              |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 11/2/1988  | 9:40  | 11/2/1988  | 9:52     | 0.2    | 250  | PULVERIZER FEEDER              |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 11/5/1988  | 9:57  | 11/6/1988  | 3:15     | 17.29  | 250  | PULVERIZER FEEDER              |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 11/6/1988  | 3:15  | 11/6/1988  | 20:29    | 17.23  | 1510 | FLUE GAS DUCTS                 |
| 521 | 188 | Oak Creek #8 | 000* | 245 | D1 | 11/7/1988  | 7:45  | 11/7/1988  | 15:25    | 7.66   | 1850 | BOILER WATER QUALITY           |
| 521 | 188 | Oak Creek #8 |      |     | NC | 11/13/1988 | 7:00  | 11/13/1988 | 13:30    | 6.5    | 3415 | FEEDWATER PUMP LUBE OIL SYS    |
| 521 | 188 | Oak Creek #8 |      |     | NC | 11/13/1988 | 16:17 | 11/13/1988 | 18:50    | 2.55   | 3415 | FEEDWATER PUMP LUBE OIL SYS    |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 11/17/1988 | 7:04  | 11/18/1988 | 2:00     | 18.93  | 1799 | OTHER CONTROL PROBLEMS         |
| 521 | 188 | Oak Creek #8 |      |     | NC | 11/28/1988 | 23:45 | 11/29/1988 | 4:00     | 4.25   | 330  | PULVERIZER COAL LEAK           |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 12/1/1988  | 23:48 | 12/4/1988  | 21:05    | 69.28  | 1510 | FLUE GAS DUCTS                 |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 12/5/1988  | 3:40  | 12/5/1988  | 10:30    | 6.83   | 740  | 81 BLR BOOSTER PUMP FAILURE    |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 12/5/1988  | 10:30 | 12/6/1988  | 19:58    | 33.46  | 8560 | PRECIPITATOR PROBLEMS          |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 12/6/1988  | 19:58 | 12/7/1988  | 7:53     | 11.91  | 8560 | PRECIPITATOR PROBLEMS          |
| 521 | 188 | Oak Creek #8 |      |     | NC | 12/23/1988 | 21:50 | 12/24/1988 | 19:40    | 21.83  | 350  | PULV FUEL & AIR PIPING         |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 12/28/1988 | 8:00  | 12/31/1988 | 24:00:00 | 88     | 310  | #82 MILL VIBRATION             |
|     |     |              |      |     |    |            |       |            |          |        |      | #82 MILL VIBRATION (STARTED    |
| 521 | 188 | Oak Creek #8 | *    | 200 | D1 | 1/1/1989   | 0:00  | 1/1/1989   | 0:30     | 0.5    | 310  | 12/28 08:00)                   |
| 521 | 188 | Oak Creek #8 | *    | 200 | D2 | 1/1/1989   | 15:45 | 1/2/1989   | 11:30    | 19.75  | 310  | #82 MILL VIBRATION             |

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|     |     |              |      |     |    |            |       |            |       |         |      |                                 |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|---------|------|---------------------------------|
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 1/11/1989  | 19:40 | 1/14/1989  | 23:00 | 75.33   | 1050 | SIJPERHEAT PENDANT FAILURE      |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 1/14/1989  | 23:00 | 1/15/1989  | 21:25 | 22.41   | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 2/7/1989   | 8:43  | 2/7/1989   | 10:08 | 1.41    | 1480 | OTHER ID FAN PROBLEMS           |
| 521 | 188 | Oak Creek #8 | *    | 180 | D1 | 3/7/1989   | 17:40 | 3/7/1989   | 18:20 | 0.66    | 310  | #84 GRAVIMETRIC FEEDER          |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 3/13/1989  | 15:44 | 3/13/1989  | 16:43 | 0.98    | 4560 | GENERATOR VIBRATION             |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 3/14/1989  | 14:53 | 3/14/1989  | 15:30 | 0.61    | 4560 | GENERATOR VIBRATION             |
| 521 | 188 | Oak Creek #8 | *    | 240 | D2 | 3/18/1989  | 10:20 | 3/19/1989  | 9:30  | 23.16   | 9250 | LOW BTU COAL                    |
| 521 | 188 | Oak Creek #8 | *    | 205 | D1 | 3/30/1989  | 6:58  | 3/30/1989  | 9:07  | 2.15    | 310  | MILL PROBLEM                    |
| 521 | 188 | Oak Creek #8 | *    | 240 | D1 | 4/6/1989   | 8:09  | 4/6/1989   | 16:00 | 7.85    | 8560 | PRECIPITATOR PROBLEM            |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 4/16/1989  | 0:51  | 4/16/1989  | 9:24  | 8.55    | 8560 | PRECIP GROUNDS                  |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 5/6/1989   | 23:46 | 5/7/1989   | 12:24 | 12.63   | 8560 | PRECIPITATOR PROBLEM            |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 5/30/1989  | 11:30 | 5/31/1989  | 6:21  | 18.85   | 1005 | GENERATING TUBE                 |
| 521 | 188 | Oak Creek #8 | *    | 220 | D1 | 6/6/1989   | 9:54  | 6/6/1989   | 11:00 | 1.1     | 8560 | PRECIPITATOR PROBLEM            |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 6/16/1989  | 18:38 | 6/29/1989  | 18:12 | 311.56  | 1800 | ANNUAL OUTAGE                   |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 7/1/1989   | 0:41  | 7/2/1989   | 7:59  | 31.3    | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | *    |     | SF | 7/2/1989   | 7:59  | 7/2/1989   | 12:43 | 4.73    | 4040 | TURBINE BRGS                    |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 7/28/1989  | 23:55 | 7/30/1989  | 21:36 | 45.68   | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | *    | 105 | D1 | 9/4/1989   | 9:38  | 9/5/1989   | 0:01  | 14.38   | 880  | ASH HANDLING                    |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 11/4/1989  | 1:16  | 11/5/1989  | 18:59 | 41.71   | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | *    |     | SF | 11/5/1989  | 19:58 | 11/5/1989  | 20:18 | 0.33    | 1799 | OTHER CONTROL PROBLEMS 000000   |
| 521 | 188 | Oak Creek #8 | *    | 210 | D1 | 11/16/1989 | 17:28 | 11/18/1989 | 20:05 | 50.61   | 740  | 83 BLR CIRC PMP MTR PROBL540000 |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 11/17/1989 | 23:53 | 11/18/1989 | 20:05 | 20.2    | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 11/18/1989 | 20:05 | 11/20/1989 | 22:14 | 50.15   | 740  | 83 BLR CIRC PMP MTR FAILU950000 |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 2/9/1990   | 22:27 | 2/10/1990  | 8:44  | 10.28   | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 3/21/1990  | 22:02 | 3/22/1990  | 6:00  | 7.96    | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 4/20/1990  | 20:49 | 4/29/1990  | 9:56  | 205.11  | 1800 | PLANNED MAINTENANCE OUTAGE      |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 5/4/1990   | 23:55 | 5/7/1990   | 4:14  | 52.31   | 1150 | SECOND SUPERHEATER              |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 5/11/1990  | 22:15 | 5/13/1990  | 17:15 | 43      | 1090 | WRAPPER TUBE LEAK               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 5/15/1990  | 6:18  | 5/15/1990  | 10:26 | 4.13    | 1799 | OTHER CONTROL PROBLEMS          |
| 521 | 188 | Oak Creek #8 | *    | 190 | D1 | 5/22/1990  | 10:55 | 5/22/1990  | 15:26 | 4.51    | 1080 | ECONOMIZER LEAK                 |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 5/22/1990  | 15:26 | 5/23/1990  | 13:16 | 21.83   | 1080 | ECONOMIZER LEAK                 |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 6/2/1990   | 0:51  | 6/3/1990   | 18:48 | 41.95   | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 7/14/1990  | 7:55  | 7/15/1990  | 20:12 | 36.28   | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | *    | 200 | D1 | 8/3/1990   | 16:47 | 8/3/1990   | 17:45 | 0.96    | 3631 | 480V CIRCUIT BREAKER            |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/7/1990   | 23:50 | 9/9/1990   | 22:23 | 46.55   | 3861 | FIRE PROTECTION SYS PIPING      |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 10/9/1990  | 8:00  | 10/9/1990  | 10:30 | 2.5     | 3112 | CONDENSER TUBE FOULING          |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 11/21/1990 | 22:15 | 11/25/1990 | 20:34 | 94.31   | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 12/4/1990  | 17:50 | 12/4/1990  | 19:30 | 1.66    | 3112 | CONDENSER TUBE FOULING TUBE     |
| 521 | 188 | Oak Creek #8 | *    |     | NC | 12/10/1990 | 22:27 | 12/11/1990 | 5:00  | 6.55    | 3415 | SIDE                            |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 12/13/1990 | 21:02 | 12/14/1990 | 5:53  | 8.85    | 0    | Reserve Shutdown                |
| 521 | 188 | Oak Creek #8 | *    | 210 | D1 | 2/12/1991  | 17:30 | 2/12/1991  | 20:50 | 3.33    | 310  | 82 BFP DRIVE LUBE OIL SYS       |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 2/23/1991  | 2:56  | 6/12/1991  | 13:35 | 2626.65 | 1800 | PULVERIZER MILLS                |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 2/23/1991  | 2:56  | 6/12/1991  | 13:35 | 2626.65 | 1800 | PLANNED MAINTENANCE OUTAGE      |

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|     |     |              |      |     |    |           |       |           |       |        |      |                                |
|-----|-----|--------------|------|-----|----|-----------|-------|-----------|-------|--------|------|--------------------------------|
| 521 | 188 | Oak Creek #8 | 000* | 140 | PD | 6/12/1991 | 13:35 | 6/12/1991 | 13:55 | 0.33   | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 6/12/1991 | 13:55 | 6/12/1991 | 20:19 | 6.4    | 4240 | BEARINGS                       |
| 521 | 188 | Oak Creek #8 | 000* | 140 | PD | 6/12/1991 | 20:19 | 6/12/1991 | 21:03 | 0.73   | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 6/12/1991 | 21:03 | 6/12/1991 | 22:30 | 1.45   | 4240 | BEARINGS                       |
| 521 | 188 | Oak Creek #8 | 000* | 140 | PD | 6/12/1991 | 22:30 | 6/13/1991 | 3:36  | 5.1    | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 6/13/1991 | 3:36  | 6/13/1991 | 10:17 | 6.68   | 480  | OTHER OIL FUEL SUPPLY PROBLEMS |
| 521 | 188 | Oak Creek #8 | 000* | 140 | PD | 6/13/1991 | 10:17 | 6/13/1991 | 17:51 | 7.56   | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 6/13/1991 | 17:51 | 6/13/1991 | 18:35 | 0.73   | 4240 | BEARINGS                       |
| 521 | 188 | Oak Creek #8 | 000* | 140 | PD | 6/13/1991 | 18:35 | 6/14/1991 | 1:30  | 6.91   | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 6/14/1991 | 1:30  | 6/16/1991 | 23:59 | 70.48  | 4240 | BEARINGS                       |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/16/1991 | 23:59 | 6/17/1991 | 2:39  | 2.66   | 4240 | BEARINGS                       |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/17/1991 | 4:48  | 6/17/1991 | 6:01  | 1.21   | 4240 | BEARINGS                       |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/17/1991 | 10:32 | 6/17/1991 | 11:08 | 0.6    | 1700 | FEEDWATER CONTROLS             |
| 521 | 188 | Oak Creek #8 | 000* | 140 | D1 | 6/18/1991 | 0:01  | 6/18/1991 | 13:32 | 13.51  | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/18/1991 | 13:32 | 6/18/1991 | 16:31 | 2.98   | 4609 | OTHER EXCITER PROBLEMS         |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/18/1991 | 17:18 | 6/19/1991 | 3:11  | 9.88   | 4240 | BEARINGS                       |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/19/1991 | 3:23  | 6/19/1991 | 5:41  | 2.3    | 1475 | INDUCED DRAFT FAN CONT.        |
| 521 | 188 | Oak Creek #8 | 000* | 140 | D1 | 6/19/1991 | 5:41  | 6/19/1991 | 13:18 | 7.61   | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/19/1991 | 13:18 | 6/19/1991 | 18:36 | 5.3    | 1470 | ID FAN MOTORS & DRIVERS        |
| 521 | 188 | Oak Creek #8 | 000* | 140 | D1 | 6/20/1991 | 18:36 | 6/21/1991 | 0:01  | 5.41   | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 6/21/1991 | 0:01  | 6/21/1991 | 21:39 | 21.63  | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 6/21/1991 | 21:39 | 6/21/1991 | 22:30 | 0.85   | 4460 | TURBINE OVERSPEED TRIP TEST    |
| 521 | 188 | Oak Creek #8 | 000* | 220 | D1 | 6/21/1991 | 22:30 | 6/21/1991 | 23:08 | 0.63   | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/21/1991 | 23:08 | 6/22/1991 | 8:58  | 9.83   | 4240 | BEARINGS                       |
| 521 | 188 | Oak Creek #8 | 000* | 220 | D1 | 6/22/1991 | 8:58  | 6/24/1991 | 8:00  | 47.03  | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 6/24/1991 | 16:28 | 6/24/1991 | 23:15 | 6.78   | 4261 | CONTROL VALVES                 |
| 521 | 188 | Oak Creek #8 | 000* | 180 | D1 | 6/24/1991 | 23:15 | 6/25/1991 | 13:50 | 14.58  | 1455 | ID FANS                        |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/25/1991 | 13:50 | 6/25/1991 | 14:32 | 0.7    | 1470 | ID FAN MTRS AND DRIVES         |
| 521 | 188 | Oak Creek #8 | 000* | 180 | D1 | 6/25/1991 | 14:32 | 6/25/1991 | 15:23 | 0.85   | 1455 | ID FANS                        |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/25/1991 | 15:23 | 6/25/1991 | 21:41 | 6.3    | 1415 | FD FAN CONTROLS                |
| 521 | 188 | Oak Creek #8 | 000* | 180 | D1 | 6/25/1991 | 21:41 | 6/27/1991 | 5:20  | 31.65  | 1455 | ID FANS                        |
| 521 | 188 | Oak Creek #8 | 000* | 265 | D1 | 6/27/1991 | 5:20  | 6/27/1991 | 10:00 | 4.66   | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 7/4/1991  | 0:03  | 7/8/1991  | 17:23 | 113.33 | 0    | Reserve Shutdown               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 7/9/1991  | 7:14  | 7/9/1991  | 7:56  | 0.7    | 4240 | BEARINGS                       |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 7/13/1991 | 3:23  | 7/14/1991 | 23:19 | 43.93  | 0    | Reserve Shutdown               |
| 521 | 188 | Oak Creek #8 | 000* | 180 | D1 | 7/14/1991 | 23:19 | 7/15/1991 | 20:30 | 21.18  | 265  | ID FAN                         |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 7/17/1991 | 8:54  | 7/17/1991 | 9:34  | 0.66   | 1710 | COMBUSTION CONTROL             |
| 521 | 188 | Oak Creek #8 | *    |     | NC | 7/27/1991 | 19:00 | 7/28/1991 | 10:30 | 15.5   | 3812 | SERVICE WATER VALVES           |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 8/2/1991  | 23:42 | 8/12/1991 | 1:38  | 217.93 | 0    | Reserve Shutdown               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 8/13/1991 | 10:28 | 8/13/1991 | 11:15 | 0.78   | 1710 | COMBUSTION CONTROL             |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 9/5/1991  | 23:25 | 9/6/1991  | 6:30  | 7.08   | 0    | Reserve Shutdown               |
| 521 | 188 | Oak Creek #8 | *    |     | SF | 9/6/1991  | 6:30  | 9/6/1991  | 7:46  | 1.26   | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 9/6/1991  | 10:00 | 9/6/1991  | 12:00 | 2      | 310  | PULVERIZER MILLS               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/18/1991 | 2:50  | 9/18/1991 | 3:34  | 0.73   | 1710 | COMBUSTION CONTROLS            |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/20/1991 | 2:10  | 9/20/1991 | 2:48  | 0.63   | 4260 | MAIN STOP VALVES               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/1/1991 | 23:59 | 10/2/1991 | 0:53  | 0.9    | 1710 | COMBUSTION CONTROLS            |

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|     |     |              |      |     |    |            |       |            |       |        |      |                            |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|----------------------------|
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/2/1991  | 6:13  | 10/2/1991  | 7:05  | 0.86   | 1710 | COMBUSTION CONTROLS        |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/14/1991 | 8:39  | 10/14/1991 | 9:31  | 0.86   | 9910 | MAINTENANCE ERROR          |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/14/1991 | 9:42  | 10/14/1991 | 10:26 | 0.73   | 4240 | BEARINGS                   |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/14/1991 | 10:39 | 10/14/1991 | 13:56 | 3.28   | 4240 | BEARINGS                   |
| 521 | 188 | Oak Creek #8 | 000* | 115 | D1 | 11/1/1991  | 7:15  | 11/1/1991  | 13:41 | 6.43   | 3112 | CONDENSER TUBE FOULING     |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/1/1991  | 13:41 | 11/1/1991  | 19:33 | 5.86   | 3112 | CONDENSER TUBE FOULING     |
| 521 | 188 | Oak Creek #8 | 000* | 180 | D1 | 11/2/1991  | 9:00  | 11/2/1991  | 9:45  | 0.75   | 3112 | CONDENSER TUBE FOULING     |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/5/1991  | 0:05  | 11/5/1991  | 1:21  | 1.26   | 1710 | COMBUSTION CONTROLS        |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/21/1991 | 11:27 | 11/21/1991 | 12:46 | 1.31   | 1710 | COMBUSTION CONTROLS        |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 11/27/1991 | 7:00  | 11/27/1991 | 10:00 | 3      | 1475 | ID FAN PROBLEMS            |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 11/28/1991 | 7:03  | 12/1/1991  | 23:36 | 112.55 | 0    | Reserve Shutdown           |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 12/14/1991 | 10:52 | 12/14/1991 | 13:52 | 3      | 1710 | COMBUSTION CONTROLS        |
| 521 | 188 | Oak Creek #8 | 000* | 185 | D1 | 1/23/1992  | 16:45 | 1/23/1992  | 18:30 | 1.75   | 4301 | TURBINE GOVERNING SYSTEM   |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 2/14/1992  | 22:30 | 2/17/1992  | 0:05  | 49.58  | 0    | Reserve Shutdown           |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 3/2/1992   | 17:08 | 3/2/1992   | 21:07 | 3.98   | 3112 | CONDENSER TUBE FOULING     |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 3/14/1992  | 1:00  | 3/14/1992  | 6:00  | 5      | 0    | Reserve Shutdown           |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 3/14/1992  | 6:00  | 3/14/1992  | 12:30 | 6.5    | 1040 | FIRST SUPERHEATER LEAK     |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 3/14/1992  | 12:30 | 3/16/1992  | 0:12  | 35.7   | 265  | PRIMARY AIR HEATER         |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 3/27/1992  | 13:30 | 3/27/1992  | 14:46 | 1.26   | 4240 | BEARINGS                   |
| 521 | 188 | Oak Creek #8 |      |     | RS | 5/1/1992   | 23:58 | 5/4/1992   | 0:32  | 48.56  | 0    | Reserve Shutdown           |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 5/21/1992  | 5:06  | 5/21/1992  | 5:49  | 0.71   | 310  | PULVERIZER MILLS           |
| 521 | 188 | Oak Creek #8 |      |     | NC | 5/24/1992  | 0:01  | 5/24/1992  | 21:30 | 21.48  | 3311 | CONDENSATE/HOTWELL PMP MTR |
| 521 | 188 | Oak Creek #8 |      |     | RS | 5/30/1992  | 20:06 | 5/31/1992  | 15:30 | 19.4   | 0    | Reserve Shutdown           |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 6/13/1992  | 8:10  | 6/13/1992  | 9:58  | 1.8    | 250  | PULV FDR-82 FEEDER BELT    |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/20/1992  | 13:08 | 6/20/1992  | 13:55 | 0.78   | 9910 | MAINTENANCE ERROR          |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 7/2/1992   | 21:33 | 7/7/1992   | 5:41  | 104.13 | 0    | Reserve Shutdown           |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 7/11/1992  | 1:35  | 7/11/1992  | 5:12  | 3.61   | 0    | Reserve Shutdown           |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 7/11/1992  | 5:36  | 7/11/1992  | 6:14  | 0.63   | 4240 | BEARINGS                   |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 7/12/1992  | 3:26  | 7/12/1992  | 8:03  | 4.61   | 0    | Reserve Shutdown           |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 7/19/1992  | 9:04  | 7/19/1992  | 10:34 | 1.5    | 0    | Reserve Shutdown           |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 7/19/1992  | 11:35 | 7/19/1992  | 12:00 | 0.41   | 3414 | FEEDWATER PUMP CONTROLS    |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 7/20/1992  | 20:12 | 7/26/1992  | 13:09 | 136.95 | 0    | Reserve Shutdown           |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 8/30/1992  | 10:52 | 8/30/1992  | 12:01 | 1.15   | 1710 | COMBUSTION CONTROLS        |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/15/1992 | 15:45 | 10/15/1992 | 16:45 | 1      | 1710 | COMBUSTION CONTROLS        |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 10/17/1992 | 22:27 | 10/18/1992 | 18:25 | 19.96  | 0    | Reserve Shutdown           |
|     |     |              |      |     |    |            |       |            |       |        |      | CONDENSER TUBE & WTRBX     |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 11/2/1992  | 11:05 | 11/2/1992  | 12:00 | 0.91   | 3113 | CLEANING                   |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 11/4/1992  | 8:45  | 11/4/1992  | 10:30 | 1.75   | 250  | PULVERIZER FEEDER          |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 11/18/1992 | 7:30  | 11/18/1992 | 10:40 | 3.16   | 250  | PULVERIZER FEEDER          |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/20/1992 | 2:38  | 11/20/1992 | 3:58  | 1.33   | 340  | OTHER PULVERIZER PROBLEMS  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/20/1992 | 5:12  | 11/20/1992 | 6:00  | 0.8    | 340  | OTHER PULVERIZER PROBLEMS  |
| 521 | 188 | Oak Creek #8 | 000* | 160 | D1 | 11/25/1992 | 10:25 | 11/25/1992 | 13:58 | 3.55   | 4430 | GLAND SEAL SYSTEM          |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 11/25/1992 | 13:58 | 11/26/1992 | 5:15  | 15.28  | 4430 | GLAND SEAL SYSTEM          |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 11/26/1992 | 5:15  | 11/27/1992 | 5:00  | 23.75  | 0    | Reserve Shutdown           |
| 521 | 188 | Oak Creek #8 | *    |     | SF | 11/27/1992 | 5:00  | 11/27/1992 | 10:31 | 5.51   | 4040 | TURBINE BEARING VIBRATION  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/29/1992 | 3:17  | 11/29/1992 | 4:43  | 1.43   | 410  | OTHER BURNER PROBLEMS      |

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|     |     |              |      |     |    |            |       |            |       |        |      |                                  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|----------------------------------|
| 521 | 188 | Oak Creek #8 | *    |     | RS | 11/29/1992 | 21:48 | 11/30/1992 | 6:24  | 8.6    | 0    | Reserve Shutdown                 |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 1/1/1993   | 0:28  | 1/3/1993   | 0:01  | 47.55  | 0    | Reserve Shutdown                 |
| 521 | 188 | Oak Creek #8 | 000* | *   | PO | 1/3/1993   | 0:01  | 2/13/1993  | 13:48 | 997.78 | 1800 | PLANNED MAINTENANCE OUTAGE       |
| 521 | 188 | Oak Creek #8 | 000* | *   | PO | 2/14/1993  | 1:48  | 2/14/1993  | 3:00  | 1.2    | 1710 | COMBUSTION CONTROLS              |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 2/24/1993  | 16:34 | 2/24/1993  | 17:00 | 0.43   | 1710 | COMBUSTION CONTROLS              |
| 521 | 188 | Oak Creek #8 | *    |     | SF | 2/24/1993  | 17:00 | 2/24/1993  | 18:45 | 1.75   | 380  | LIGHT-OFF SYSTEMS                |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 3/6/1993   | 0:49  | 3/8/1993   | 2:57  | 50.13  | 4260 | MAIN STOP VALVES                 |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 3/12/1993  | 17:00 | 3/13/1993  | 5:00  | 12     | 253  | PULVERIZER FEEDER MOTOR          |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 3/13/1993  | 10:00 | 3/13/1993  | 13:00 | 3      | 253  | PULVERIZER FEEDER MOTOR          |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 3/13/1993  | 16:42 | 3/13/1993  | 17:46 | 1.06   | 1710 | COMBUSTION CONTROLS              |
| 521 | 188 | Oak Creek #8 | *    |     | NC | 3/13/1993  | 21:30 | 3/14/1993  | 7:00  | 9.5    | 310  | PULVERIZER MILLS                 |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 3/17/1993  | 12:03 | 3/20/1993  | 6:25  | 66.36  | 1070 | SECOND REHEATER                  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 3/24/1993  | 7:25  | 3/24/1993  | 8:57  | 1.53   | 1710 | COMBUSTION CONTROLS              |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 4/9/1993   | 12:21 | 4/9/1993   | 13:33 | 1.2    | 9270 | WET COAL                         |
| 521 | 188 | Oak Creek #8 | *    | 130 | D1 | 4/16/1993  | 6:00  | 4/16/1993  | 7:00  | 1      | 3150 | HOTWELL LEVEL CONTROLS           |
| 521 | 188 | Oak Creek #8 | *    | 200 | D1 | 5/12/1993  | 9:55  | 5/12/1993  | 12:00 | 2.08   | 1480 | OTHER ID FAN PROBLEMS            |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 5/26/1993  | 1:35  | 5/26/1993  | 2:30  | 0.91   | 1710 | COMBUSTION CONTROL               |
| 521 | 188 | Oak Creek #8 | *    | 265 | D1 | 6/8/1993   | 10:50 | 6/8/1993   | 12:00 | 1.16   | 110  | OTHER COAL FUEL SUPPLY PROBLEMS  |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 6/19/1993  | 0:42  | 6/19/1993  | 6:14  | 5.53   | 1799 | OTHER BOILER CONTROL PROBLEMS    |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/22/1993  | 1:34  | 6/22/1993  | 3:18  | 1.73   | 1710 | COMBUSTION CONTROL               |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 6/27/1993  | 8:58  | 6/27/1993  | 20:24 | 11.43  | 4293 | HYDRAULIC SYSTEM PIPES & VLVS    |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/27/1993  | 23:30 | 6/28/1993  | 3:44  | 4.23   | 3149 | LOSS OF VACUUM-OTHER COMPONENTS  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 7/2/1993   | 12:43 | 7/2/1993   | 13:25 | 0.7    | 9900 | OPERATOR ERROR                   |
| 521 | 188 | Oak Creek #8 | 000* | 280 | D1 | 7/6/1993   | 7:00  | 7/6/1993   | 12:00 | 5      | 310  | PULVERIZER MILLS                 |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 8/2/1993   | 0:07  | 8/2/1993   | 1:23  | 1.26   | 1710 | COMBUSTION CONTROL               |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 8/13/1993  | 23:20 | 8/16/1993  | 1:33  | 50.21  | 1005 | GENERATING TUBE                  |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 8/20/1993  | 20:07 | 8/23/1993  | 5:00  | 56.88  | 1060 | FIRST REHEATER                   |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 9/23/1993  | 16:29 | 9/26/1993  | 2:05  | 57.6   | 1070 | SECOND REHEATER                  |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 10/13/1993 | 9:49  | 10/13/1993 | 11:57 | 2.13   | 3620 | MAIN TRANSFORMER                 |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 11/9/1993  | 0:36  | 11/9/1993  | 1:10  | 0.56   | 9910 | ELECTRICAL SWITCHING ERROR       |
| 521 | 188 | Oak Creek #8 | 000* | 145 | D1 | 11/11/1993 | 16:33 | 11/11/1993 | 18:15 | 1.7    | 266  | OTHER ID FAN PROBLEMS            |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D2 | 12/6/1993  | 16:35 | 12/6/1993  | 18:20 | 1.75   | 250  | PULVERIZER FEEDER                |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 12/16/1993 | 2:38  | 12/16/1993 | 3:20  | 0.7    | 9910 | MAINTENANCE ERROR                |
| 521 | 188 | Oak Creek #8 | 000* | 280 | D1 | 2/2/1994   | 4:30  | 2/2/1994   | 20:45 | 16.25  | 300  | PULVERIZER MOTOR                 |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 2/4/1994   | 23:34 | 2/5/1994   | 12:19 | 12.75  | 0    | Reserve Shutdown                 |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 2/5/1994   | 20:03 | 2/6/1994   | 3:23  | 7.33   | 0    | Reserve Shutdown                 |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 2/7/1994   | 5:45  | 2/7/1994   | 6:35  | 0.83   | 4260 | MAIN STOP VALVES                 |
| 521 | 188 | Oak Creek #8 | 000* | 145 | D1 | 2/11/1994  | 13:26 | 2/11/1994  | 14:00 | 0.56   | 1471 | ID FAN MOTORS-VARIABLE SPEED     |
| 521 | 188 | Oak Creek #8 | 000* | 280 | D4 | 2/24/1994  | 23:00 | 2/27/1994  | 9:20  | 58.33  | 310  | PULVERIZER MILL                  |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D2 | 3/2/1994   | 13:00 | 3/2/1994   | 14:35 | 1.58   | 250  | PULVERIZER FEEDER                |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 3/8/1994   | 10:41 | 3/8/1994   | 12:31 | 1.83   | 9910 | MAINTENANCE ERROR (DC SWITCHING) |
| 521 | 188 | Oak Creek #8 | *    |     | NC | 3/13/1994  | 0:30  | 3/14/1994  | 4:00  | 27.5   | 1455 | ID FANS                          |

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GADS Data for Wisconsin Electric Power Co.

| Utility # | Unit # | Unit Name    | GAC | NAC | Event Type | Start of event  | end of event    | Duration in hours | Cause Code | Description of event |
|-----------|--------|--------------|-----|-----|------------|-----------------|-----------------|-------------------|------------|----------------------|
| 521       | 158    | Oak Creek #5 | 200 |     | D1         | 1/4/1975 5:00   | 1/4/1975 16:35  | 11.58             | 3440       |                      |
| 521       | 158    | Oak Creek #5 | 126 |     | D1         | 1/7/1975 20:45  | 1/8/1975 2:15   | 5.5               | 1455       |                      |
| 521       | 158    | Oak Creek #5 | 130 |     | D1         | 1/10/1975 2:00  | 1/10/1975 4:00  | 2                 | 1999       |                      |
| 521       | 158    | Oak Creek #5 | 130 |     | D1         | 1/12/1975 1:50  | 1/12/1975 3:30  | 1.66              | 3410       |                      |
| 521       | 158    | Oak Creek #5 | 230 |     | D1         | 1/13/1975 20:00 | 1/14/1975 0:30  | 4.5               | 1440       |                      |
| 521       | 158    | Oak Creek #5 | 200 |     | D1         | 1/17/1975 12:01 | 1/18/1975 6:00  | 17.98             | 3441       |                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/20/1975 0:54  | 1/21/1975 2:07  | 25.21             | 1040       |                      |
| 521       | 158    | Oak Creek #5 | 126 |     | D1         | 1/21/1975 7:50  | 1/23/1975 5:30  | 45.66             | 340        |                      |
| 521       | 158    | Oak Creek #5 | 186 |     | D1         | 1/23/1975 18:30 | 1/24/1975 12:10 | 17.66             | 3440       |                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/23/1975 22:11 | 1/24/1975 8:30  | 10.31             | 3170       |                      |
| 521       | 158    | Oak Creek #5 | 210 |     | D1         | 1/29/1975 23:00 | 1/31/1975 1:00  | 26                | 3999       |                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 1/31/1975 1:00  | 2/1/1975 5:05   | 28.08             | 1040       |                      |
| 521       | 158    | Oak Creek #5 | 216 |     | D1         | 2/4/1975 6:10   | 2/4/1975 8:45   | 2.58              | 3999       |                      |
| 521       | 158    | Oak Creek #5 | 210 |     | D1         | 2/5/1975 0:01   | 2/5/1975 8:00   | 7.98              | 3999       |                      |
| 521       | 158    | Oak Creek #5 | 126 |     | D1         | 2/5/1975 8:20   | 2/6/1975 3:00   | 18.66             | 3440       |                      |
| 521       | 158    | Oak Creek #5 | 190 |     | D1         | 2/11/1975 4:30  | 2/12/1975 5:00  | 24.5              | 3440       |                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 2/14/1975 4:10  | 2/14/1975 22:23 | 18.21             | 1000       |                      |
| 521       | 158    | Oak Creek #5 | 126 |     | D1         | 2/14/1975 22:23 | 2/16/1975 20:00 | 45.61             | 340        |                      |
| 521       | 158    | Oak Creek #5 | 126 |     | D1         | 2/17/1975 8:40  | 2/20/1975 10:30 | 73.83             | 340        |                      |
| 521       | 158    | Oak Creek #5 |     |     | PO         | 2/22/1975 6:32  | 3/14/1975 15:44 | 489.2             | 1999       |                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 3/16/1975 1:06  | 3/16/1975 6:24  | 5.3               | 1999       |                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 3/18/1975 23:10 | 3/20/1975 1:27  | 26.28             | 1080       |                      |
| 521       | 158    | Oak Creek #5 | 121 |     | D1         | 3/22/1975 20:30 | 3/22/1975 23:00 | 2.5               | 340        |                      |
| 521       | 158    | Oak Creek #5 | 126 |     | D1         | 3/30/1975 7:00  | 3/30/1975 19:00 | 12                | 340        |                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 3/30/1975 22:35 | 3/31/1975 23:34 | 24.98             | 1080       |                      |
| 521       | 158    | Oak Creek #5 | 151 |     | D1         | 3/31/1975 23:34 | 4/4/1975 22:35  | 95.01             | 1486       |                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 4/4/1975 22:35  | 4/6/1975 14:49  | 40.23             | 1486       |                      |
| 521       | 158    | Oak Creek #5 | 225 |     | D1         | 4/6/1975 14:50  | 4/9/1975 13:15  | 70.41             | 1486       |                      |
| 521       | 158    | Oak Creek #5 | 192 |     | D1         | 4/19/1975 0:01  | 4/19/1975 16:30 | 16.48             | 3440       |                      |
| 521       | 158    | Oak Creek #5 | 67  |     | PD         | 4/19/1975 7:30  | 4/19/1975 20:00 | 12.5              | 1999       |                      |
| 521       | 158    | Oak Creek #5 | 125 |     | D1         | 5/3/1975 3:35   | 5/9/1975 5:30   | 145.91            | 340        |                      |
| 521       | 158    | Oak Creek #5 | 150 |     | D1         | 5/10/1975 8:00  | 5/10/1975 12:00 | 4                 | 340        |                      |
| 521       | 158    | Oak Creek #5 | 145 |     | D1         | 5/18/1975 7:00  | 5/18/1975 16:15 | 9.25              | 340        |                      |
| 521       | 158    | Oak Creek #5 | 220 |     | D1         | 5/19/1975 13:00 | 5/22/1975 23:00 | 82                | 3999       |                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/23/1975 22:42 | 5/26/1975 20:29 | 69.78             | 1040       |                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 5/28/1975 22:53 | 5/30/1975 3:55  | 29.03             | 1040       |                      |
| 521       | 158    | Oak Creek #5 | 189 |     | D1         | 6/3/1975 5:45   | 6/3/1975 22:20  | 16.58             | 3440       |                      |
| 521       | 158    | Oak Creek #5 | 124 |     | D1         | 6/7/1975 7:30   | 6/8/1975 17:05  | 33.58             | 340        |                      |
| 521       | 158    | Oak Creek #5 | 200 |     | D1         | 6/13/1975 10:10 | 6/16/1975 2:09  | 63.98             | 850        |                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 6/14/1975 0:50  | 6/16/1975 2:09  | 49.31             | 1060       |                      |
| 521       | 158    | Oak Creek #5 | 190 |     | D1         | 6/17/1975 12:30 | 6/18/1975 5:45  | 17.25             | 3440       |                      |
| 521       | 158    | Oak Creek #5 |     |     | U1         | 6/22/1975 0:39  | 6/22/1975 20:12 | 19.54             | 1060       |                      |

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|     |     |              |      |     |    |            |       |            |       |        |      |                                  |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|----------------------------------|
| 521 | 188 | Oak Creek #8 | 000* | 170 | D1 | 4/18/1994  | 16:00 | 4/18/1994  | 17:45 | 1.75   | 1480 | OTHER INDUCED DRAFT FAN PROBLEMS |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/12/1994  | 19:00 | 6/12/1994  | 22:04 | 3.06   | 1710 | COMBUSTION CONTROLS              |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/17/1994  | 22:16 | 6/23/1994  | 14:44 | 136.46 | 1005 | GENERATING TUBE                  |
| 521 | 188 | Oak Creek #8 | *    |     | U3 | 7/1/1994   | 20:52 | 7/4/1994   | 11:58 | 63.1   | 1070 | SECOND REHEATER                  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 7/11/1994  | 15:17 | 7/11/1994  | 16:45 | 1.46   | 1470 | ID FAN MOTORS AND DRIVES         |
| 521 | 188 | Oak Creek #8 | 000* | 140 | D1 | 7/15/1994  | 10:03 | 7/15/1994  | 11:15 | 1.2    | 1470 | ID FAN - MOTORS & DRIVES         |
| 521 | 188 | Oak Creek #8 | 000* | 165 | D1 | 7/18/1994  | 15:34 | 7/18/1994  | 16:35 | 1.01   | 1480 | OTHER ID FAN PROBLEMS            |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 8/5/1994   | 6:49  | 8/5/1994   | 13:48 | 6.98   | 3112 | CONDENSER TUBE PLUGGAGE          |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 8/9/1994   | 11:40 | 8/9/1994   | 22:00 | 10.33  | 3112 | COND. TUBE FOULING TUBE SIDE     |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 8/19/1994  | 20:28 | 8/24/1994  | 8:51  | 108.38 | 1070 | SECOND REHEATER                  |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 9/3/1994   | 1:41  | 9/4/1994   | 20:02 | 42.35  | 0    | Reserve Shutdown                 |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 9/9/1994   | 22:48 | 9/13/1994  | 4:29  | 77.68  | 1070 | SECOND REHEATER                  |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 9/23/1994  | 23:07 | 9/25/1994  | 18:25 | 43.3   | 1070 | SECOND REHEATER                  |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 11/4/1994  | 19:58 | 11/6/1994  | 20:44 | 48.76  | 0    | Reserve Shutdown                 |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 11/11/1994 | 0:13  | 11/14/1994 | 3:47  | 75.56  | 0    | Reserve Shutdown                 |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 12/23/1994 | 22:00 | 12/30/1994 | 23:59 | 169.98 | 0    | Reserve Shutdown                 |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 12/31/1994 | 0:01  | 12/31/1994 | 23:59 | 23.96  | 4400 | TURBINE OVERHAUL                 |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 1/1/1995   | 0:02  | 4/13/1995  | 14:38 | 2462.6 | 4400 | TURBINE OVERHAUL                 |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 4/20/1995  | 23:18 | 4/21/1995  | 2:08  | 2.83   | 0    | Reserve Shutdown                 |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 4/21/1995  | 18:52 | 4/29/1995  | 7:17  | 180.41 | 4260 | MAIN STOP VALVES                 |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 5/13/1995  | 4:02  | 5/16/1995  | 1:33  | 69.51  | 4260 | MAIN STOP VALVE                  |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 5/27/1995  | 3:32  | 5/29/1995  | 17:50 | 62.3   | 0    | Reserve Shutdown                 |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 6/6/1995   | 13:00 | 6/6/1995   | 14:10 | 1.16   | 3502 | HTR LEVEL CONTROL                |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/6/1995   | 19:54 | 6/6/1995   | 20:38 | 0.73   | 1710 | COMBUSTION CONTROLS              |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 6/17/1995  | 14:00 | 6/17/1995  | 15:45 | 1.75   | 3310 | CONDENSATE/HOTWELL PUMPS         |
| 521 | 188 | Oak Creek #8 | 000* | 235 | D1 | 8/6/1995   | 12:00 | 8/6/1995   | 21:30 | 9.5    | 310  | PULVERIZER MILLS                 |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 8/19/1995  | 0:29  | 8/20/1995  | 9:50  | 33.34  | 590  | DESUPERHTR CHECK VALVE           |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 8/20/1995  | 17:30 | 8/21/1995  | 7:00  | 13.5   | 9270 | WET COAL                         |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/9/1995   | 19:45 | 9/9/1995   | 21:20 | 1.58   | 1710 | COMBUSTION CONTROLS              |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 9/15/1995  | 6:00  | 9/17/1995  | 16:00 | 58     | 310  | PULVERIZER MILLS                 |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/7/1995  | 22:06 | 10/11/1995 | 22:00 | 95.9   | 1000 | BOILER TUBE LEAKS                |
| 521 | 188 | Oak Creek #8 | 000* | 240 | D1 | 10/12/1995 | 9:00  | 10/12/1995 | 15:30 | 6.5    | 300  | PULVERIZER MOTORS AND DRIVES     |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 10/14/1995 | 10:46 | 10/15/1995 | 16:13 | 29.45  | 1000 | BOILER TUBE LEAKS                |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 10/21/1995 | 22:16 | 10/22/1995 | 12:14 | 13.96  | 0    | Reserve Shutdown                 |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 11/2/1995  | 23:39 | 11/3/1995  | 2:56  | 3.28   | 0    | Reserve Shutdown                 |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 11/6/1995  | 15:00 | 11/6/1995  | 19:15 | 4.25   | 280  | PULVERIZER FIRES                 |
| 521 | 188 | Oak Creek #8 | *    |     | U3 | 11/10/1995 | 1:04  | 11/12/1995 | 16:54 | 63.83  | 1000 | BOILER TUBE LEAKS                |
| 521 | 188 | Oak Creek #8 | *    |     | U3 | 1/6/1996   | 0:31  | 1/7/1996   | 16:50 | 40.31  | 1000 |                                  |
| 521 | 188 | Oak Creek #8 | 000* | 200 | D1 | 1/25/1996  | 10:20 | 1/25/1996  | 12:40 | 2.33   | 280  |                                  |
| 521 | 188 | Oak Creek #8 | 000* | 220 | D1 | 1/25/1996  | 13:00 | 1/25/1996  | 14:30 | 1.5    | 320  |                                  |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 1/25/1996  | 17:00 | 1/26/1996  | 5:00  | 12     | 280  |                                  |
| 521 | 188 | Oak Creek #8 | 000* | 235 | D1 | 1/29/1996  | 8:00  | 2/2/1996   | 0:17  | 88.28  | 3110 | nil                              |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 2/2/1996   | 0:17  | 2/2/1996   | 4:30  | 4.21   | 0    | Reserve Shutdown                 |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 2/2/1996   | 4:30  | 2/2/1996   | 7:30  | 3      | 3110 |                                  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 2/2/1996   | 7:30  | 2/3/1996   | 9:41  | 26.18  | 3110 | Other oil and gas supply         |

WEPCO 40145

|     |     |              |      |     |    |            |       |            |       |        |      |                               |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|-------------------------------|
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 2/7/1996   | 10:17 | 2/7/1996   | 11:15 | 0.96   | 3416 |                               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 2/11/1996  | 20:30 | 2/12/1996  | 19:52 | 23.36  | 1000 | nil                           |
| 521 | 188 | Oak Creek #8 | 000* | 268 | PD | 2/19/1996  | 9:15  | 2/23/1996  | 0:01  | 86.76  | 340  |                               |
| 521 | 188 | Oak Creek #8 | 000* | 170 | PD | 3/30/1996  | 8:00  | 4/1/1996   | 2:00  | 42     | 350  |                               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 4/17/1996  | 14:45 | 4/17/1996  | 16:10 | 1.41   | 1710 |                               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 4/17/1996  | 16:32 | 4/17/1996  | 17:14 | 0.7    | 1710 |                               |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 5/25/1996  | 1:00  | 5/25/1996  | 18:30 | 17.5   | 750  |                               |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 5/25/1996  | 18:30 | 5/26/1996  | 19:14 | 24.73  | 0    | Reserve Shutdown              |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 6/15/1996  | 17:46 | 6/15/1996  | 22:00 | 4.23   | 0    | Reserve Shutdown              |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/15/1996  | 22:00 | 6/19/1996  | 8:18  | 82.3   | 1005 | nil                           |
| 521 | 188 | Oak Creek #8 | *    |     | U3 | 7/10/1996  | 1:21  | 7/10/1996  | 10:58 | 9.61   | 3441 | nil                           |
| 521 | 188 | Oak Creek #8 | 000* | 225 | D1 | 7/16/1996  | 8:00  | 7/16/1996  | 11:30 | 3.5    | 340  |                               |
| 521 | 188 | Oak Creek #8 | *    |     | U3 | 8/31/1996  | 16:07 | 9/2/1996   | 14:45 | 46.63  | 1005 |                               |
| 521 | 188 | Oak Creek #8 | *    |     | SF | 9/2/1996   | 14:45 | 9/8/1996   | 22:12 | 151.45 | 4260 | nil                           |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/13/1996  | 5:08  | 9/13/1996  | 22:09 | 17.01  | 3112 |                               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/14/1996  | 0:46  | 9/15/1996  | 22:46 | 46     | 3112 |                               |
| 521 | 188 | Oak Creek #8 | 000* | 150 | D1 | 9/17/1996  | 13:30 | 9/18/1996  | 8:00  | 18.5   | 3112 | nil                           |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 9/18/1996  | 8:00  | 9/18/1996  | 20:00 | 12     | 3112 |                               |
| 521 | 188 | Oak Creek #8 | 000* | 250 | D1 | 9/19/1996  | 7:00  | 9/20/1996  | 0:01  | 17.01  | 3112 | nil                           |
| 521 | 188 | Oak Creek #8 | 000* | 235 | D1 | 9/23/1996  | 9:00  | 9/23/1996  | 11:10 | 2.16   | 280  |                               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/23/1996  | 20:20 | 9/23/1996  | 21:48 | 1.46   | 3411 |                               |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 10/2/1996  | 19:00 | 10/2/1996  | 22:45 | 3.75   | 340  |                               |
| 521 | 188 | Oak Creek #8 | 000* | 210 | D1 | 10/7/1996  | 19:00 | 10/8/1996  | 2:30  | 7.5    | 3112 | Normal                        |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 10/10/1996 | 7:30  | 10/11/1996 | 3:00  | 19.5   | 3112 |                               |
| 521 | 188 | Oak Creek #8 | 000* | 30  | D1 | 10/31/1996 | 5:06  | 10/31/1996 | 8:00  | 2.9    | 1470 | nil                           |
| 521 | 188 | Oak Creek #8 | 000* | 220 | D1 | 10/31/1996 | 9:00  | 10/31/1996 | 14:15 | 5.25   | 250  |                               |
| 521 | 188 | Oak Creek #8 | 000* | 220 | D1 | 11/1/1996  | 13:00 | 11/1/1996  | 15:30 | 2.5    | 330  |                               |
| 521 | 188 | Oak Creek #8 | 000* | 255 | D1 | 11/4/1996  | 7:30  | 11/4/1996  | 14:30 | 7      | 250  |                               |
| 521 | 188 | Oak Creek #8 | 000* | 190 | D1 | 11/12/1996 | 7:00  | 11/12/1996 | 11:00 | 4      | 4500 |                               |
| 521 | 188 | Oak Creek #8 | 000* | 260 | D1 | 11/14/1996 | 0:01  | 11/15/1996 | 0:01  | 24     | 300  |                               |
| 521 | 188 | Oak Creek #8 | 000* | 205 | D1 | 11/18/1996 | 8:00  | 11/18/1996 | 10:00 | 2      | 1100 |                               |
| 521 | 188 | Oak Creek #8 | *    |     | U2 | 11/18/1996 | 21:00 | 11/21/1996 | 11:51 | 62.85  | 1105 |                               |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 12/28/1996 | 3:05  | 12/31/1996 | 23:59 | 92.9   | 1800 |                               |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 1/1/1997   | 0:01  | 1/30/1997  | 7:36  | 703.58 | 1800 | Outage started 12-28-96 03:05 |
| 521 | 188 | Oak Creek #8 | 00*0 | 250 | D1 | 2/1/1997   | 11:00 | 2/2/1997   | 23:30 | 36.5   | 3123 | Hotwell Level                 |
| 521 | 188 | Oak Creek #8 | 00*0 | 255 | D1 | 2/5/1997   | 9:30  | 2/5/1997   | 23:59 | 14.48  | 110  | Coal Blending                 |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 2/15/1997  | 1:08  | 2/15/1997  | 5:06  | 3.96   | 0    | Reserve Shutdown              |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 2/15/1997  | 16:30 | 2/16/1997  | 4:10  | 11.66  | 4450 | Water Induction To IP Turbine |
| 521 | 188 | Oak Creek #8 | 00*0 | 225 | D1 | 5/2/1997   | 5:00  | 5/2/1997   | 11:30 | 6.5    | 310  | Pulverizer Mills              |
| 521 | 188 | Oak Creek #8 | *    |     | NC | 5/13/1997  | 0:05  | 5/13/1997  | 3:00  | 2.91   | 344  | Pulverizer Inspect            |
| 521 | 188 | Oak Creek #8 | *    |     | NC | 5/13/1997  | 23:42 | 5/14/1997  | 1:30  | 1.8    | 344  | Pulverizer Inspect            |
| 521 | 188 | Oak Creek #8 | 00*0 | 185 | D1 | 6/4/1997   | 5:00  | 6/4/1997   | 9:21  | 4.35   | 250  | Pulverizer Feeder             |
| 521 | 188 | Oak Creek #8 | *    |     | U3 | 6/14/1997  | 14:40 | 6/16/1997  | 3:20  | 36.66  | 3110 | Repair Condenser Tube Leak    |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 6/20/1997  | 14:19 | 6/22/1997  | 14:38 | 48.31  | 1050 | Repair Superheat Tube Leak    |
| 521 | 188 | Oak Creek #8 | 00*0 | 280 | D1 | 6/25/1997  | 5:00  | 6/25/1997  | 6:00  | 1      | 253  | Feeder Motor                  |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 7/3/1997   | 18:37 | 7/6/1997   | 12:18 | 65.68  | 1005 | Generating Tube               |



|     |     |              |      |      |    |            |       |            |       |        |      |   |
|-----|-----|--------------|------|------|----|------------|-------|------------|-------|--------|------|---|
| 521 | 188 | Oak Creek #8 | 00*0 | 250  | D1 | 7/25/1997  | 17:02 | 7/25/1997  | 19:00 | 1.96   | 250  | Pulverizer Feeder   |
| 521 | 188 | Oak Creek #8 | 00*0 | 100  | D1 | 8/4/1997   | 23:00 | 8/6/1997   | 3:00  | 28     | 3112 | Condenser Tube Fouling  |
| 521 | 188 | Oak Creek #8 | *    |      | RS | 8/11/1997  | 2:31  | 8/11/1997  | 2:39  | 0.13   | 0    | Reserve Shutdown  |
| 521 | 188 | Oak Creek #8 | 00*0 | 215  | D1 | 9/2/1997   | 7:15  | 9/2/1997   | 9:15  | 2      | 380  | Ignitor Gas Valve   |
| 521 | 188 | Oak Creek #8 | 00*0 | 235  | D1 | 9/3/1997   | 12:00 | 9/3/1997   | 22:00 | 10     | 3112 | Condenser Tube Fouling  |
| 521 | 188 | Oak Creek #8 | *    |      | U1 | 9/24/1997  | 20:21 | 9/24/1997  | 21:38 | 1.28   | 9900 | Unit Tripped Due to Personnel Error   |
| 521 | 188 | Oak Creek #8 | *    |      | MO | 9/27/1997  | 0:37  | 10/4/1997  | 21:28 | 188.85 | 1050 | Boiler Tube Leak  |
| 521 | 188 | Oak Creek #8 | 00*0 | 000* | U1 | 10/5/1997  | 0:37  | 10/5/1997  | 11:39 | 11.03  | 3950 | Unit Tripped Due to Computer Malfunction  |
| 521 | 188 | Oak Creek #8 | *    |      | U1 | 10/6/1997  | 5:23  | 10/9/1997  | 22:26 | 89.05  | 876  | Sootblower Controls   |
| 521 | 188 | Oak Creek #8 | 00*0 | 160  | D1 | 10/27/1997 | 7:00  | 10/27/1997 | 19:00 | 12     | 3112 | Condenser Tube Fouling  |
| 521 | 188 | Oak Creek #8 | 00*0 | 90   | D1 | 11/6/1997  | 10:00 | 11/6/1997  | 13:30 | 3.5    | 3110 | Condenser Tube Leak   |
| 521 | 188 | Oak Creek #8 | 00*0 | 250  | D1 | 11/6/1997  | 13:30 | 11/6/1997  | 18:30 | 5      | 340  | Other Mill Problems   |
| 521 | 188 | Oak Creek #8 | 00*0 | 230  | D1 | 11/7/1997  | 16:30 | 11/7/1997  | 19:30 | 3      | 270  | Primary Air Duct and Dampers  |
| 521 | 188 | Oak Creek #8 | *    |      | RS | 11/27/1997 | 0:40  | 11/30/1997 | 23:23 | 94.71  | 0    | Reserve Shutdown  |
| 521 | 188 | Oak Creek #8 | 00*0 | 160  | D1 | 2/4/1998   | 12:00 | 2/4/1998   | 14:50 | 2.83   | 1100 | Slag Buildup - Water wall tubes   |
| 521 | 188 | Oak Creek #8 | 00*0 | 215  | PD | 2/18/1998  | 10:30 | 2/21/1998  | 9:00  | 70.5   | 741  | Boiler Booster Pump #2 Motor  |
| 521 | 188 | Oak Creek #8 | 00*0 | 150  | D1 | 3/6/1998   | 20:27 | 3/6/1998   | 21:00 | 0.55   | 340  | Other Mill Problems   |
| 521 | 188 | Oak Creek #8 | 00*0 | 215  | PD | 3/6/1998   | 21:00 | 3/23/1998  | 9:00  | 396    | 741  | Boiler Booster Pump #2 Motor  |
| 521 | 188 | Oak Creek #8 | 00*0 | 184  | D1 | 3/23/1998  | 9:00  | 3/23/1998  | 10:30 | 1.5    | 330  | 2 Mill Coal Pipe  |
| 521 | 188 | Oak Creek #8 | 00*0 | 150  | D1 | 4/1/1998   | 22:00 | 4/2/1998   | 10:20 | 12.33  | 310  | Pulverizer Problems   |
| 521 | 188 | Oak Creek #8 | 00*0 | 215  | PD | 4/2/1998   | 10:20 | 4/11/1998  | 5:00  | 210.66 | 741  | Boiler Booster Pump   |
| 521 | 188 | Oak Creek #8 | *    |      | MO | 4/11/1998  | 5:00  | 4/26/1998  | 15:43 | 370.71 | 1488 | Maintenance Outage  |
| 521 | 188 | Oak Creek #8 | *    |      | U3 | 5/8/1998   | 21:30 | 5/10/1998  | 22:25 | 48.91  | 1000 | Repair Tube Leak at Water Wall  |
| 521 | 188 | Oak Creek #8 | *    |      | U1 | 5/11/1998  | 8:36  | 5/11/1998  | 22:04 | 13.46  | 4265 | Misc Turbine Drains & Vent Vlvs   |
| 521 | 188 | Oak Creek #8 | 00*0 | 250  | D1 | 5/14/1998  | 9:30  | 5/14/1998  | 11:30 | 2      | 870  | Repack South Sootblower Isolation   |
| 521 | 188 | Oak Creek #8 | 00*0 | 235  | D1 | 5/18/1998  | 7:00  | 5/21/1998  | 0:26  | 65.43  | 1400 | Forced Draft Fans   |
| 521 | 188 | Oak Creek #8 | *    |      | MO | 5/21/1998  | 0:26  | 5/23/1998  | 20:10 | 67.73  | 1000 | Furnace Wall  |
| 521 | 188 | Oak Creek #8 | 00*0 | 255  | D1 | 5/26/1998  | 15:00 | 5/26/1998  | 20:30 | 5.5    | 250  | Pulverizer Feeder   |
| 521 | 188 | Oak Creek #8 | 00*0 | 250  | D1 | 5/27/1998  | 7:20  | 5/27/1998  | 10:50 | 3.5    | 255  | Pulverizer Feeder Coal Scales   |
| 521 | 188 | Oak Creek #8 | 00*0 | 185  | D4 | 5/30/1998  | 9:00  | 6/1/1998   | 4:55  | 43.91  | 200  | 3 Mill Exhauster Fan  |
| 521 | 188 | Oak Creek #8 | *    |      | U1 | 6/24/1998  | 21:46 | 6/24/1998  | 23:56 | 2.16   | 3190 | Loss of Condenser Vacuum While Return<br>81/82 Heater Drain Pump                      |
| 521 | 188 | Oak Creek #8 | *    |      | U1 | 6/30/1998  | 0:20  | 7/6/1998   | 14:58 | 158.63 | 500  | Main Steam Piping Up To Turbine Stop<br>Vlvs  |
| 521 | 188 | Oak Creek #8 | *    |      | U1 | 7/8/1998   | 10:14 | 7/8/1998   | 11:23 | 1.15   | 1700 | Unit Trip - Low Drum Level  |
| 521 | 188 | Oak Creek #8 | 00*0 | 190  | D1 | 7/8/1998   | 11:23 | 7/8/1998   | 22:50 | 11.45  | 1850 | High Silica Pressure Limitation   |
| 521 | 188 | Oak Creek #8 | 00*0 | 270  | D1 | 7/11/1998  | 17:30 | 7/12/1998  | 3:00  | 9.5    | 3199 | Other Miscellaneous Condensing Problems<br>Repair Leak on EI 144 on Drain Line Off Of |
| 521 | 188 | Oak Creek #8 | *    |      | MO | 8/1/1998   | 0:44  | 8/3/1998   | 5:24  | 52.66  | 799  | Roof Inlet Header   |
| 521 | 188 | Oak Creek #8 | 00*0 | 260  | D1 | 8/4/1998   | 9:00  | 8/4/1998   | 22:00 | 13     | 3199 | Condensing Problems<br>Condenser Back Pressure - Circ Water                           |
| 521 | 188 | Oak Creek #8 | 00*0 | 260  | D1 | 8/5/1998   | 9:45  | 8/5/1998   | 21:00 | 11.25  | 3280 | Temp  |
| 521 | 188 | Oak Creek #8 | 00*0 | 145  | D1 | 8/11/1998  | 19:15 | 8/11/1998  | 20:00 | 0.75   | 3199 | Condenser Back Pressure   |
| 521 | 188 | Oak Creek #8 | 00*0 | 240  | D1 | 8/11/1998  | 20:00 | 8/14/1998  | 10:00 | 62     | 3199 | Condenser Back Pressure   |

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|     |     |              |      |     |    |            |       |            |       |        |      |                                       |
|-----|-----|--------------|------|-----|----|------------|-------|------------|-------|--------|------|---------------------------------------|
| 521 | 188 | Oak Creek #8 | 00*0 | 275 | D1 | 8/14/1998  | 10:00 | 8/14/1998  | 23:00 | 13     | 3199 | Condenser Back Pressure               |
| 521 | 188 | Oak Creek #8 | 00*0 | 250 | D1 | 8/15/1998  | 12:00 | 8/15/1998  | 23:00 | 11     | 3199 | Condenser Back Pressure               |
| 521 | 188 | Oak Creek #8 | 00*0 | 240 | D1 | 8/16/1998  | 7:00  | 8/16/1998  | 23:30 | 16.5   | 3199 | Condenser Back Pressure               |
| 521 | 188 | Oak Creek #8 | 00*0 | 260 | D1 | 8/17/1998  | 8:00  | 8/17/1998  | 22:00 | 14     | 3199 | Condenser Back Pressure               |
| 521 | 188 | Oak Creek #8 | 00*0 | 260 | D1 | 8/18/1998  | 6:00  | 8/19/1998  | 23:30 | 41.5   | 3199 | Condenser Back Pressure               |
| 521 | 188 | Oak Creek #8 | 00*0 | 270 | D1 | 8/20/1998  | 8:00  | 8/20/1998  | 20:08 | 12.13  | 3199 | Condenser Back Pressure               |
| 521 | 188 | Oak Creek #8 | 00*0 | 270 | D1 | 8/21/1998  | 4:30  | 8/24/1998  | 16:16 | 83.76  | 3199 | Condenser Back Pressure               |
| 521 | 188 | Oak Creek #8 | 00*0 | 180 | D1 | 8/24/1998  | 16:16 | 8/26/1998  | 8:35  | 40.31  | 60   | Coal Crushers Including Motor         |
| 521 | 188 | Oak Creek #8 | 00*0 | 150 | D1 | 8/26/1998  | 8:35  | 8/27/1998  | 8:33  | 23.96  | 330  | Pulverizer Coal Leak                  |
| 521 | 188 | Oak Creek #8 | 00*0 | 270 | D1 | 8/27/1998  | 8:33  | 9/1/1998   | 10:48 | 122.25 | 3199 | Condenser Back Pressure               |
| 521 | 188 | Oak Creek #8 | 00*0 | 160 | D1 | 9/8/1998   | 7:00  | 9/8/1998   | 10:00 | 3      | 3199 | Condenser Back Pressure               |
| 521 | 188 | Oak Creek #8 | 00*0 | 120 | D1 | 9/8/1998   | 10:00 | 9/10/1998  | 5:15  | 43.25  | 3199 | Condenser Back Pressure               |
| 521 | 188 | Oak Creek #8 | 00*0 | 130 | D1 | 9/10/1998  | 5:15  | 9/10/1998  | 12:45 | 7.5    | 590  | South Desuperheater Reg Valve         |
| 521 | 188 | Oak Creek #8 | 00*0 | 180 | D1 | 9/11/1998  | 12:45 | 9/11/1998  | 16:00 | 3.25   | 3199 | Condenser Back Pressure               |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/14/1998  | 8:06  | 9/14/1998  | 13:25 | 5.31   | 3261 | Traveling Screen Fouling              |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 9/15/1998  | 15:45 | 9/15/1998  | 19:35 | 3.83   | 3261 | Traveling Screen Fouling              |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 9/19/1998  | 0:48  | 9/22/1998  | 11:17 | 82.48  | 8590 | Other Precipitator Problems           |
| 521 | 188 | Oak Creek #8 | 00*0 | 165 | D1 | 9/22/1998  | 20:15 | 9/28/1998  | 12:00 | 135.75 | 3411 | Feedwater Pump Drive Motor            |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 10/16/1998 | 22:08 | 10/18/1998 | 14:41 | 40.55  | 1000 | Repair Waterwall Tube Leak            |
| 521 | 188 | Oak Creek #8 | 00*0 | 180 | D1 | 10/26/1998 | 3:30  | 10/26/1998 | 13:30 | 10     | 340  | Repair Pyrite Scraper in #84 Mill     |
| 521 | 188 | Oak Creek #8 | 00*0 | 110 | D1 | 11/4/1998  | 7:00  | 11/4/1998  | 15:35 | 8.58   | 1488 | Air Heater 81 Drive Problems          |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 12/4/1998  | 22:52 | 12/7/1998  | 4:34  | 53.7   | 8590 | Precipitator Problem                  |
| 521 | 188 | Oak Creek #8 | 00*0 | 240 | D1 | 12/8/1998  | 8:00  | 12/12/1998 | 7:28  | 95.46  | 3199 | Condenser Backpressure                |
| 521 | 188 | Oak Creek #8 | 00*0 | 260 | D1 | 12/12/1998 | 7:28  | 12/17/1998 | 8:00  | 120.53 | 340  | 84 Mill Thrust & Guide Brg Inspection |
| 521 | 188 | Oak Creek #8 | 00*0 | 240 | D1 | 12/23/1998 | 4:30  | 12/23/1998 | 10:15 | 5.75   | 250  | 85 Mill                               |
| 521 | 188 | Oak Creek #8 | 00*0 | 240 | D1 | 12/23/1998 | 10:15 | 12/24/1998 | 5:45  | 19.5   | 340  | 84 Mill Pulverizer Inspection         |
| 521 | 188 | Oak Creek #8 | *    |     | PO | 1/16/1999  | 1:27  | 2/8/1999   | 3:19  | 553.86 | 1800 | Planned Maintenance Outage            |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 2/11/1999  | 5:57  | 2/13/1999  | 13:55 | 55.96  | 1030 | Boiler Tube Leak                      |
| 521 | 188 | Oak Creek #8 | *    | 240 | D4 | 2/14/1999  | 19:45 | 2/22/1999  | 8:55  | 181.16 | 3501 | Heater Drain Pumps                    |
| 521 | 188 | Oak Creek #8 | *    | 255 | PD | 2/22/1999  | 8:55  | 3/3/1999   | 13:30 | 220.58 | 345  | 85 Mill Overhaul                      |
| 521 | 188 | Oak Creek #8 | *    | 270 | D4 | 3/3/1999   | 13:35 | 3/17/1999  | 2:50  | 325.25 | 3501 | Heater Drain Pumps                    |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 3/20/1999  | 1:05  | 3/21/1999  | 19:08 | 42.05  | 4261 | Control Valves                        |
| 521 | 188 | Oak Creek #8 | *    | 265 | D1 | 3/25/1999  | 8:30  | 3/25/1999  | 10:00 | 1.5    | 330  | Coal Leak on Discharge Riffler        |
| 521 | 188 | Oak Creek #8 | *    | 265 | D1 | 4/13/1999  | 12:00 | 4/13/1999  | 18:03 | 6.05   | 280  | Pulverizer Fire                       |
| 521 | 188 | Oak Creek #8 | *    | 170 | D1 | 5/14/1999  | 14:45 | 5/15/1999  | 17:00 | 26.25  | 1488 | Air Heater (Regenerative)             |
| 521 | 188 | Oak Creek #8 | *    | 135 | D1 | 5/16/1999  | 9:00  | 5/16/1999  | 14:45 | 5.75   | 1488 | Air Heater                            |
| 521 | 188 | Oak Creek #8 | *    | 240 | D1 | 5/22/1999  | 21:25 | 5/23/1999  | 19:40 | 22.25  | 280  | Pulverizer Fire                       |
| 521 | 188 | Oak Creek #8 | *    | 180 | D1 | 5/23/1999  | 19:40 | 5/24/1999  | 14:00 | 18.33  | 4650 | Other Cooling Problems                |
| 521 | 188 | Oak Creek #8 | *    |     | U1 | 5/26/1999  | 12:30 | 5/26/1999  | 14:30 | 2      | 3261 | Traveling Water Screen Fouling        |
| 521 | 188 | Oak Creek #8 | *    |     | MO | 6/4/1999   | 1:26  | 6/6/1999   | 2:59  | 49.55  | 872  | Sootblowers - Water                   |
| 521 | 188 | Oak Creek #8 | *    | 220 | D1 | 6/12/1999  | 11:00 | 6/12/1999  | 12:30 | 1.5    | 280  | 83 Mill Tripped (Fire)                |
| 521 | 188 | Oak Creek #8 | *    | 230 | D1 | 6/12/1999  | 15:30 | 6/12/1999  | 16:30 | 1      | 250  | 83 Feeder Tripped                     |
| 521 | 188 | Oak Creek #8 | *    | 130 | D1 | 6/17/1999  | 13:43 | 6/17/1999  | 16:45 | 3.03   | 1488 | Air Heater Drive                      |
| 521 | 188 | Oak Creek #8 | *    |     | RS | 6/18/1999  | 21:30 | 6/21/1999  | 7:44  | 58.23  | 0    | Reserve Shutdown                      |
| 521 | 188 | Oak Creek #8 | *    | 130 | PD | 6/26/1999  | 23:08 | 6/27/1999  | 16:00 | 16.86  | 1488 | Air Heater Drive #81                  |
| 521 | 188 | Oak Creek #8 | *    | 160 | D1 | 6/30/1999  | 7:00  | 6/30/1999  | 9:20  | 2.33   | 250  | 84 Feeder Motor Interrupts            |

|     |     |                     |     |     |    |            |       |            |       |        |      |  |
|-----|-----|---------------------|-----|-----|----|------------|-------|------------|-------|--------|------|--|
| 521 | 188 | Oak Creek #8        | *   | 250 | D1 | 7/8/1999   | 21:15 | 7/9/1999   | 6:39  | 9.39   | 340  | Other Pulverizer Problems                  |
| 521 | 188 | Oak Creek #8        | *   |     | U2 | 7/10/1999  | 8:13  | 7/10/1999  | 12:13 | 4      | 3261 | Traveling Water Screen Fouling             |
| 521 | 188 | Oak Creek #8        | *   |     | MO | 8/7/1999   | 20:42 | 8/9/1999   | 1:43  | 29.01  | 892  | Bottom Ash Clinker Grinder                 |
| 521 | 188 | Oak Creek #8        | *   | 124 | D1 | 8/13/1999  | 20:17 | 8/14/1999  | 1:00  | 4.71   | 3261 | Traveling Water Screen Fouling             |
| 521 | 188 | Oak Creek #8        | *   | 80  | D1 | 8/17/1999  | 8:11  | 8/17/1999  | 12:00 | 3.81   | 3261 | Traveling Water Screen Fouling             |
| 521 | 188 | Oak Creek #8        | *   | 255 | D1 | 9/11/1999  | 7:00  | 9/11/1999  | 23:39 | 16.65  | 250  | 84 Feeder Belt Tom                         |
| 521 | 188 | Oak Creek #8        | *   |     | U1 | 9/11/1999  | 23:39 | 9/12/1999  | 0:47  | 1.13   | 1710 | Boiler Air Upset                           |
| 521 | 188 | Oak Creek #8        | *   | 235 | D1 | 9/30/1999  | 5:40  | 9/30/1999  | 15:00 | 9.33   | 250  | Pulverizer Feeders                         |
| 521 | 188 | Oak Creek #8        | *   |     | PO | 10/11/1999 | 0:35  | 10/18/1999 | 20:52 | 188.28 | 1493 | Air Heater Wash                            |
| 521 | 188 | Oak Creek #8        | *   |     | NC | 10/21/1999 | 12:50 | 10/27/1999 | 6:57  | 138.11 | 345  | Pulverizer Overhaul                        |
| 521 | 188 | Oak Creek #8        | *   |     | U1 | 11/15/1999 | 6:58  | 11/22/1999 | 1:00  | 162.03 | 3431 | 87 Feedwater Outlet Valve Leak             |
| 521 | 188 | Oak Creek #8        | *   | 162 | D1 | 11/28/1999 | 17:15 | 11/28/1999 | 20:40 | 3.41   | 1470 | 82 ID Fan Variable Frequency Drive Failure |
| 521 | 188 | Oak Creek #8        | *   | 220 | D1 | 12/1/1999  | 23:20 | 12/2/1999  | 6:00  | 6.66   | 340  | Other Pulverizer Problems                  |
| 521 | 188 | Oak Creek #8        | *   | 200 | D1 | 12/2/1999  | 17:45 | 12/3/1999  | 9:47  | 16.03  | 1850 | High Silica Boiler Water                   |
| 521 | 188 | Oak Creek #8        | *   | 260 | D1 | 12/14/1999 | 20:31 | 12/16/1999 | 6:00  | 33.48  | 280  | Pulverizer Fires                           |
| 521 | 188 | Oak Creek #8        | *   | 150 | D1 | 12/25/1999 | 17:35 | 12/25/1999 | 19:00 | 1.41   | 1471 | ID Fan Motors-Variable Speed               |
| 521 | 188 | Oak Creek #8        | *   | 150 | D1 | 12/25/1999 | 19:55 | 12/27/1999 | 12:50 | 40.91  | 1471 | ID Fan Motors-Variable Speed               |
| 521 | 188 | Oak Creek #8        | *   | 165 | D1 | 12/28/1999 | 13:15 | 12/28/1999 | 13:56 | 0.68   | 1471 | 82 ID-Contractor to Start & Stop VFD       |
| 521 | 116 | Pleasant Prairie #1 | 390 |     | D1 | 6/30/1980  | 15:43 | 7/31/1980  | 0:01  | 728.3  | 340  |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | MO | 7/3/1980   | 18:24 | 7/7/1980   | 5:00  | 82.6   | 1040 |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | U1 | 7/7/1980   | 20:11 | 7/8/1980   | 14:30 | 18.31  | 1486 |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | U1 | 7/10/1980  | 14:13 | 7/10/1980  | 20:42 | 6.48   | 4899 |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | MO | 7/11/1980  | 18:31 | 7/14/1980  | 7:12  | 60.68  | 4899 |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | MO | 7/18/1980  | 22:01 | 7/21/1980  | 3:49  | 53.8   | 4899 |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | U1 | 7/21/1980  | 15:53 | 7/21/1980  | 19:22 | 3.48   | 1999 |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | U1 | 7/25/1980  | 10:46 | 7/25/1980  | 15:20 | 4.56   | 4309 |  |
| 521 | 116 | Pleasant Prairie #1 | 440 |     | D1 | 7/31/1980  | 0:01  | 8/30/1980  | 14:30 | 734.48 | 340  |  |
| 521 | 116 | Pleasant Prairie #1 | 240 |     | D1 | 7/31/1980  | 0:45  | 7/31/1980  | 6:10  | 5.41   | 340  |  |
| 521 | 116 | Pleasant Prairie #1 | 420 |     | D1 | 7/31/1980  | 13:30 | 8/2/1980   | 10:15 | 44.75  | 340  |  |
| 521 | 116 | Pleasant Prairie #1 | 160 |     | D1 | 8/1/1980   | 21:30 | 8/2/1980   | 10:15 | 12.75  | 340  |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | U1 | 8/2/1980   | 10:15 | 8/3/1980   | 5:43  | 19.46  | 340  |  |
| 521 | 116 | Pleasant Prairie #1 | 160 |     | D1 | 8/3/1980   | 5:43  | 8/4/1980   | 16:00 | 34.28  | 340  |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | MO | 8/9/1980   | 22:15 | 8/10/1980  | 14:53 | 16.63  | 380  |  |
| 521 | 116 | Pleasant Prairie #1 | 320 |     | D1 | 8/11/1980  | 5:00  | 8/11/1980  | 15:15 | 10.25  | 340  |  |
| 521 | 116 | Pleasant Prairie #1 | 320 |     | D1 | 8/11/1980  | 16:40 | 8/11/1980  | 19:35 | 2.91   | 340  |  |
| 521 | 116 | Pleasant Prairie #1 | 390 |     | D1 | 8/12/1980  | 8:00  | 8/12/1980  | 14:00 | 6      | 340  |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | MO | 8/14/1980  | 23:22 | 8/22/1980  | 2:51  | 171.48 | 4301 |  |
| 521 | 116 | Pleasant Prairie #1 | 385 |     | D1 | 8/19/1980  | 11:00 | 8/30/1980  | 22:39 | 275.65 | 3410 |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | MO | 8/23/1980  | 0:43  | 8/23/1980  | 1:08  | 0.41   | 4301 |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | U1 | 8/23/1980  | 22:50 | 8/24/1980  | 8:57  | 10.11  | 1799 |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | U1 | 8/24/1980  | 10:50 | 8/24/1980  | 12:12 | 1.36   | 9270 |  |
| 521 | 116 | Pleasant Prairie #1 | 440 |     | D1 | 8/30/1980  | 23:00 | 9/3/1980   | 15:00 | 88     | 9650 |  |
| 521 | 116 | Pleasant Prairie #1 | 340 |     | D1 | 9/1/1980   | 10:45 | 9/1/1980   | 12:00 | 1.25   | 360  |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | MO | 9/5/1980   | 22:50 | 9/14/1980  | 14:25 | 207.58 | 1999 |  |
| 521 | 116 | Pleasant Prairie #1 |     |     | U1 | 9/21/1980  | 5:51  | 9/21/1980  | 16:43 | 10.86  | 1799 |  |

DATE: September 28, 2006 FILE REF: 4560

TO: Review File for Permit# 737009020-P02

FROM: Steve Dunn – AM/7

SUBJECT: Response to Comments on Permit# 737009020-P02 for the Wisconsin Public Service Corporation's (WPSC's) Weston Facility

Comments on the draft permit were received from the Sierra Club and from WPSC. The comments from the Sierra Club will be addressed first, followed by the comments from WPSC. The numbering for the responses is the same as in the comments which are attached. Additionally, the Department has completed air dispersion modeling for this permit and concludes that the facility with the emission limitations included in this permit will meet ambient air quality requirements.

Sierra Club Comment Responses:

1. **Response:** The Department has included a cap at 154.4 lb/hour for particulate matter in the final permit ensuring no increase in emissions.
2. **Response:** The Department has included a cap at 180.0 lb/hour for particulate matter in the final permit ensuring no increase in emissions.
3. **Response:** The Department has included a cap at 390.6 lb/hour for particulate matter in the final permit ensuring no increase in emissions.
4. **Response:** The emission limitation for particulate matter has not been changed in this permit and neither has the compliance monitoring requirements cited by the commenter. Since this compliance monitoring is unchanged in this permit revision from the original Title V permit, the Department is not accepting comments on this permit provision at this time.
5. **Response:** The emission limitation for particulate matter has not been changed in this permit and neither has the compliance monitoring requirements cited by the commenter. Since this compliance monitoring is unchanged in this permit revision from the original Title V permit, the Department is not accepting comments on this permit provision at this time.
6. **Response:** The Department disagrees with this comment. The Department has concluded that the emission limitation for particulate matter will not be exceeded when combusting the specified fuels based on stack testing results provided by WPSC. For opacity limitations, the Department also believes that combusting one of the fuels allowed in the permit will allow the facility to meet the opacity limitation. Outside of installing an opacity monitor (COM) or requiring continuous Method 9 readings, the Department is not aware of what other requirements could be included in the permit to ensure compliance. The COM is not practical for an intermittent source such as these and the continuous opacity readings are also overly burdensome and ineffective during periods of darkness. The Department concurs that the combustion of #2 oil could possibly lead to opacity exceedances, but believes the compliance demonstration requirements, plus the general incentive for the permittee to run these operations efficiently to lower the cost of producing power, are adequate to demonstrate compliance with this requirement.

**7. Response:** The Department does not believe that a CAM proposal or CAM plan needs to be included in this permit. The CAM requirements will apply to B01, B02, and B03. When the Title V permit is renewed or when a significant permit revision to the particulate matter requirements for B01, B02, or B03 occurs, then the CAM plan will be submitted by the facility, reviewed by DNR, and made available for public comment. A significant permit revision is not occurring to B01, B02, and B03 for particulate matter as part of this permit action. Therefore, the requirement to submit a CAM has not been triggered.

**8. Response:** The compliance reporting requirements are unchanged in this permit revision from the original Title V permit, thus Department is not accepting comments on this permit provision at this time. The Department will place this comment in the review file for the renewal of the Title V permit and this comment will be addressed at that time.

**9. Response:** Sections NR 431.04(1) and NR 431.05, Wis. Adm. Code are the underlying authority for these permit conditions. There is no language for the exclusion of startup and shutdown other than the specific language regarding an exception for up to 80% opacity for 6 minutes in any one hour when combustion equipment is being cleaned or a new fire started with the provision that combustion equipment may not be cleaned nor a fire started more than 3 times per day. Therefore, conditions I.A.2.a.(1) and I.B.2.a.(1) will be changed to read as follows:

*(1) Opacity may not exceed 40% or number 2 of the Ringlemann chart except when combustion equipment is being cleaned or a new fire started, emissions may exceed number 2 of the Ringlemann chart or 40% opacity but may not exceed number 4 of the Ringlemann chart or 80% opacity for 6 minutes in any one hour. Combustion equipment may not be cleaned nor a fire started more than 3 times per day. Emissions may exceed number 1 of the Ringlemann chart or 20% opacity for stated periods of time, as permitted by the department, for such purpose as an operating test, use of emergency or reserve equipment, or other good cause, provided no hazard or unsafe condition arises. [s. NR 431.04(1) and 431.05(1)&(2), Wis. Adm. Code]*

**10. Response:** The Department does not believe that the proposed changes to the CO emission limitations represent a “physical change” or a “change in method of operation” of the boilers. The proposed changes are based on recent test data for the boilers. Based on this data, the boilers cannot meet the emission limitations in the current Title V permit. These limitations were set based on air dispersion modeling that showed there were no problems at those emissions levels; however, it turned out that the emission estimates were in error. Since there was no underlying basis (such as BACT) for these limits and no changes are being made to the boilers or boiler operation, the Department concludes that this increase in emissions is not subject to ch. NR 405, Wis. Adm. Code, review.

**11. Response:** A maximum emission rate of 2,743.3 #N0x/hr is included in the final permit.

**12. Response:** A maximum emission rate of 4,687.2 # S0<sub>2</sub>/hr is included in the final permit.

**13. Response:** The Department does not believe that the proposed changes to the PM and PM10 emission limitations represent a “physical change” or a “change in method of operation” of the combustion turbine. The proposed changes are based on recent test data for the turbines. Based on this data, the turbines cannot meet the emission limitations in the current Title V permit. These limitations were set based on air dispersion modeling that showed there were no problems at those emissions levels; however, it turned out that the emission estimates were in error. Since there was no underlying basis (such as BACT) for these limits and no changes are being made to the combustion turbine or turbine

operation, the Department concludes that this increase in emissions is not subject to ch. NR 405, Wis. Adm. Code, review.

14. **Response:** The Department does not believe that the proposed changes to the CO emission limitations represent a “physical change” or a “change in method of operation” of the combustion turbine. The proposed changes are based on recent test data for the turbines. Based on this data, the turbines cannot meet the emission limitations in the current Title V permit. These limitations were set based on air dispersion modeling that showed there were no problems at those emissions levels; however, it turned out that the emission estimates were in error. Since there was no underlying basis (such as BACT) for these limits and no changes are being made to the combustion turbine or turbine operation, the Department concludes that this increase in emissions is not subject to ch. NR 405, Wis. Adm. Code, review.

15. **Response:** The Department does not believe that the proposed changes to the NO<sub>x</sub> emission limitations represent a “physical change” or a “change in method of operation” of the combustion turbines. The proposed changes are based on recent test data for the turbines. Based on this data, the turbines cannot meet the emission limitations in the current Title V permit. These limitations were set based on air dispersion modeling that showed there were no problems at those emissions levels; however, it turned out that the emission estimates were in error. Since there was no underlying basis (such as BACT) for these limits and no changes are being made to the combustion turbine or turbine operation, the Department concludes that this increase in emissions is not subject to ch. NR 405, Wis. Adm. Code, review.

16. **Response:** The Department does not believe that the proposed changes to the PM<sub>10</sub> emission limitations represent a “physical change” or a “change in method of operation” of P35. The proposed changes are based on recent test data for P35. Based on this data, P35 cannot meet the emission limitations in the current Title V permit. These limitations were set based on air dispersion modeling that showed there were no problems at those emissions levels; however, it turned out that the emission estimates were in error. Since there was no underlying basis (such as BACT) for these limits and no changes are being made to P35, the Department concludes that this increase in emissions is not subject to ch. NR 405, Wis. Adm. Code, review.

17. **Response:** The Administrative Code PM limits will be added for B11 (0.60 #/MMBTU), B12 (0.10 #/MMBTU), B13 (0.10 #/MMBTU), and B22 (0.15 #/MMBTU). The allowable code limit for B21 is 0.6 #/MMBTU which is less restrictive than the 0.16 #/hr limit at any reasonably expected operating limit so it will not be included. The Department does not believe the small auxiliary boilers B21 and B22 require additional testing for PM. One of the combustion turbines (B12) was stack tested on fuel oil at a lower load of 230 MMBTU/hr on September 23, 2005. The PM emission rate was 6.2 # PM/hr or 0.03 # PM/MMBTU. Based on this result and the infrequent use of the turbines (hourly limitations are in the draft permit), the Department does not believe further testing for PM to verify compliance with the #/MMBTU limitations in s. NR 415.06 are necessary at this time. The Administrative Code limits for B11, B12, and B13 will be in the permit and if additional testing is required by the Department in the future, the low load/high load scenarios can be considered in the test planning.

18. **Response:** This finding has been deleted from the final permit.

19. **Response:** It is now stated in the preamble to the permit, “Notwithstanding the compliance determination methods which the owner or operator of a source is authorized to use under ch. NR 439,

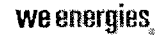
Wis. Adm. Code, the department may use any relevant information or appropriate method to determine a source's compliance with applicable emission limitations." Consequently, the Department is not limited from using any credible evidence in determining the compliance status of the facility.

**20. Response (NSPS & PSD for units 1&2):** The Department has not made a finding that the Weston facility has violated PSD or NSPS requirements nor has the facility reported to the Department that such violations have occurred. If such a finding is made in the future, then the Department will take appropriate actions to revise the operation permit as needed. Without a finding of violation, the Department will not be including a compliance plan or other requirements pertaining to PSD or NSPS.

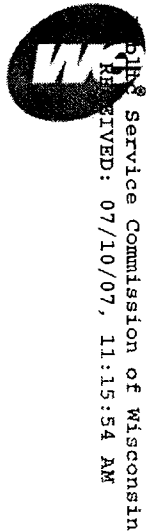
**21. Response:** The Department has not issued a Notice of Violation (NOV) to WPSC for emissions in excess of established opacity limitations nor for excessive downtime for the continuous opacity monitor identified in these comments. Without a finding of violation, the Department will not be including a compliance plan or other requirements pertaining to the continuous opacity monitor.

#### WPSC Comment Responses

WPSC made many comments of a "clean-up" nature. All the requested changes were made.



231 W. Michigan Street  
Milwaukee, WI 53203  
www.we-energies.com



July 10, 2007

Ms. Sandra J. Paske  
Secretary to the Commission  
Public Service Commission of Wisconsin  
Post Office Box 7854  
Madison, WI 53707-7854

Dear Ms. Paske:

**Replace the High-Pressure Turbine Main Steam Stop and Control Valves on Units 5 and 6 at the Oak Creek Power Plant - PSCW File 6630-CE-295**

On February 7, 2006, the Commission issued an order authorizing Wisconsin Electric to replace the high-pressure turbine main steam stop and control valves on Units 5 and 6 at the Oak Creek Power Plant. In accordance with Condition 3 of the order, we are notifying the Commission that the main steam stop and control valves on Unit 6 were placed in service on July 3, 2007. Unit 5 is expected to be complete and in service in May of 2008. Wisconsin Electric will notify the Commission when the Unit 5 work is complete.

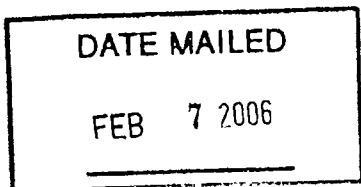
If you have any questions regarding this project, please contact Paul Farron at (414) 221-3958.

Very truly yours,

Roman A. Draba  
Vice President, Regulatory Affairs and Policy

cc: Mr. Scot Cullen – PSCW  
Mr. Robert Norcross – PSCW

- Exhibit P



BEFORE THE  
PUBLIC SERVICE COMMISSION OF WISCONSIN

Application of Wisconsin Electric Power Company for Authority to  
Replace the High-Pressure Turbine Main Steam Stop and Control  
Valves on Units 5 and 6 at the Oak Creek Power Plant

6630-CE-295

**CERTIFICATE AND ORDER**

On October 21, 2005, the Commission received an application from Wisconsin Electric Power Company (WEPCO) for authority under Wis. Stat. § 196.49 and Wis. Admin. Code ch. PSC 112 to replace the high-pressure turbine main steam stop and control valves on Units 5 and 6 at the Oak Creek Power Plant, located in the city of Oak Creek, Milwaukee County, at an estimated total cost of \$14,960,500.

The application is GRANTED, subject to conditions.

**Findings of Fact**

1. WEPCO's proposed project consists of replacing the high-pressure turbine main steam stop and control valves on Units 5 and 6 at the Oak Creek Power Plant. The estimated total cost of the project is \$14,960,500.
2. The estimated gross cost of this project exceeds the minimum threshold of utility projects requiring Commission review and approval under Wis. Admin. Code § PSC 112.05.
3. Alternatives to the proposed project have been considered but no other reasonable alternatives to the proposed project exist which could provide adequate support in a more reliable, timely, cost-effective, and environmentally acceptable manner.

- Exhibit A



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4. Neither energy conservation, renewable resources, nor other energy priorities listed in Wis. Stat. §§ 1.12 and 196.025 would be a cost-effective alternative to this project.

5. Completion of this project will not substantially impair the efficiency of the service that WEPCO provides.

6. Completion of this project will not provide facilities unreasonably in excess of applicant's probable future requirements.

7. When the project is completed, the addition to WEPCO's cost of service associated with the project will be proportionate to the increase in value or available quantity of WEPCO's service.

8. The construction of this project will not affect any known archaeological or historic architectural sites.

9. No significant environmental consequences are associated with the proposed facilities.

10. No significant risk of flooding is associated with the project.

11. No unusual circumstances suggesting the likelihood of significant environmental consequences are associated with the project.

12. The general public interest and public convenience and necessity require completion of this project.

13. The demonstrated need to begin construction of the proposed facilities requires that this order be effective one day after the date of mailing or personal service upon the parties to this proceeding, whichever is earlier.

### **Conclusions of Law**

The Commission has authority under Wis. Stat. §§ 1.11, 1.12, 196.025, 196.40, 196.49, and Wis. Admin. Code chs. PSC 4 and 112, and has delegated the authority to the administrator of the Gas and Energy Division to issue a certificate and order authorizing WEPCO, as a public utility, to replace the high-pressure turbine main steam stop and control valves on Units 5 and 6 at the Oak Creek Power Plant, as described in WEPCO's application, at an estimated total cost of \$14,960,500.

### **Opinion**

The high-pressure turbine and main steam stop and control valves on Units 5 and 6 at the Oak Creek Power Plant are original equipment that was installed in 1959 and 1961, respectively. Over the past several years, the equipment has experienced maintenance problems and failures that have affected the availability of the generating units. These failures are the result of a metallurgical process known as creep which affects various metals that are subjected to high temperature and pressure steam conditions, and cycling between hot and cold conditions over time.

Both Units 5 and 6 have experienced occurrences of the control valves becoming stuck, which have caused the units to be taken out of service for repair. The utility notes that in 2000 and 2003 this valve problem caused unit outages of over two weeks in duration. Additional repairs that have required long outages have been related to cracks found in the stop valve bodies. In 1997 valve work related to the cracks extended a scheduled outage by several weeks. Since that time, other cracks have occurred and have required unit outages of two to three weeks to repair. WEPCO notes that because these valves have been previously repaired by grinding out

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the cracks, additional repairs in these areas may not be feasible. Effects of creep can not be reversed on components of the size and geometry used at the Oak Creek Power Plant.

In 1984, WEPCO commissioned a Plant Availability Study which evaluated the condition and remaining life of the company's older generating units. The study was performed by Allis-Chalmers, the original equipment manufacturer. The manufacturer predicted that problems would appear in approximately 15 years based on the large castings exhibiting creep due to prolonged service at 2,400 psig and 1,050°F. The time at that temperature caused irreversible material degradation and internal cracks. Over the past 15 years, various other metallurgical analyses, sample testing, and outage inspection reports were performed and completed on the units' valve problem reiterating the material degradation problem due to creep.

The company estimates that between 2001 and 2005, Units 5 and 6 have experienced a total of 1,674 hours of unit outages due to the failure of the steam stop and control valve equipment. The estimated incremental fuel and purchased power cost during that time period related to these equipment failures was approximately \$10 million, or \$2 million per year. With the higher natural gas prices and related cost of purchased power, WEPCO estimates the incremental fuel and purchased power cost, using historical average experience of 335 hours of unit restrictions, would currently increase to \$3.5 million per year. Should the steam stop and control valve equipment reach a point where it could not be repaired, a 12 to 14 month lead time would be required to manufacture replacement equipment. The company estimates the incremental fuel and purchased power cost of such a non-repairable failure would be between \$80 and \$90 million per unit.

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WEPCO proposes to replace the Unit 5 and 6 main steam stop and control valves with new valves that would be identical in function and design, and would require a minimum of redesign of ancillary equipment.

There are no reasonable alternatives to the company's proposed project. Not replacing the aging main steam stop and control valves would lead to continued forced outages that could cause unit restrictions and higher replacement power costs. WEPCO further contends that not replacing the valves at this time will increase the risk of a non-repairable failure which could result in an extended outage of a year or more.

The estimated total cost of the proposed project is \$14,960,500, including: \$13,225,000 for equipment; \$1,695,500 for installation and engineering; and \$40,000 for removal costs.

WEPCO proposes to finance this project from internal sources and/or from the issuance and sale of securities.

The company proposes to replace the main steam stop and control valves on Unit 6 during the scheduled eight-week outage in March to May 2007. The Unit 5 valves at the Oak Creek facility would be replaced during the scheduled seven-week outage in January and February 2008.

The proposed project at the estimated cost will not impair the efficiency of the applicant's service, will not provide facilities unreasonably in excess of probable future requirements and, when placed in operation, will not add to the cost of service without proportionately increasing the value or available quantity thereof.

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No special circumstances exist that would support a conclusion that additional conservation activities, renewable resources, or any other energy priorities listed in Wis. Stat. §§ 1.12 and 196.05 would be a cost-effective alternative to this project.

This is a Type III action under Wis. Admin. Code § PSC 4.10(3). No unusual circumstances suggesting the likelihood of significant environmental effects on the human environment have come to the Commission's attention. Neither an environmental impact statement under Wis. Stat. § 1.11 nor an environmental assessment is required.

The Commission reviewed the proposed project for potential flood hazard exposure in accordance with Executive Order 73 (1985) and found no significant flood risk to the proposed project.

### **Certificate of Authority**

WEPCO, as an electric public utility, is granted a certificate authorizing it to construct the facilities described in its application, at an estimated total cost of \$14,960,500, subject to the conditions stated in the order below.

### **Order**

1. WEPCO is hereby granted authority to replace the main steam stop and control valves on Units 5 and 6 at the Oak Creek Power Plant as described in its application.
2. Authorization is for the specific project as described in the application, at the stated project cost of \$14,960,500. Should the scope, design, location, or timing of the project change significantly, or if the expected cost exceeds that stated above by more than 10 percent, WEPCO shall promptly notify Commission staff.

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3. The date the facilities are placed in service shall be submitted to the Commission within 60 days of being placed in service.

4. WEPCO shall submit to the Commission, within one year after the in-service date, the final actual costs segregated by major accounts. For those accounts or categories where actual costs deviate significantly from those authorized, the final cost report shall itemize and explain the reasons for such deviations.

5. This authorization is valid only if construction is started within one year of the date of this order.

6. This order is effective one day after the date of mailing or personal service upon the parties to the proceeding.

7. Jurisdiction is retained.

Dated at Madison, Wisconsin, February 3, 2006

For the Commission:



Robert Norcross  
Administrator  
Gas and Energy Division

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See attached Notice of Appeal Rights

Notice of Appeal Rights

Notice is hereby given that a person aggrieved by the foregoing decision has the right to file a petition for judicial review as provided in Wis. Stat. § 227.53. The petition must be filed within 30 days after the date of mailing of this decision. That date is shown on the first page. If there is no date on the first page, the date of mailing is shown immediately above the signature line. The Public Service Commission of Wisconsin must be named as respondent in the petition for judicial review.

Notice is further given that, if the foregoing decision is an order following a proceeding which is a contested case as defined in Wis. Stat. § 227.01(3), a person aggrieved by the order has the further right to file one petition for rehearing as provided in Wis. Stat. § 227.49. The petition must be filed within 20 days of the date of mailing of this decision.

If this decision is an order after rehearing, a person aggrieved who wishes to appeal must seek judicial review rather than rehearing. A second petition for rehearing is not an option.

This general notice is for the purpose of ensuring compliance with Wis. Stat. § 227.48(2), and does not constitute a conclusion or admission that any particular party or person is necessarily aggrieved or that any particular decision or order is final or judicially reviewable.

Revised 9/28/98