

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
OREGON TITLE V OPERATING PERMIT

Northwest Region
 2020 SW 4th Ave., Suite 400
 Portland, OR 97201
 Telephone (503) 229-5263

~~Issued in accordance with the provisions of ORS 468A.040
 and based on the land use compatibility findings included in the permit record.~~

ISSUED TO:

Northwest Pipeline GP
 295 Chipeta Way
 Salt Lake City, UT 84108

INFORMATION RELIED UPON:

Application Number: 25303
 Received: 8/19/2010

PLANT SITE LOCATION:

Oregon City Compressor Station
 15124 Springwater Road South
 Oregon City, OR 97045

LAND USE COMPATIBILITY STATEMENT:

Issued by: Clackamas County
 Dated: 10/17/94

ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY


David Monro, Air Quality Manager - NWR

2-19-2013

Date

Nature of Business

Natural Gas Transmission

SIC

4922

NAICS

48621

RESPONSIBLE OFFICIAL

Title: Current "Director of Operations"

FACILITY CONTACT PERSON

Name: Caleb K. Vickery

Title: Environmental Scientist

Phone: (801) 584-6933

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LIST OF ABBREVIATIONS THAT MAY BE USED IN THIS PERMIT

4SLB	4 stroke lean burn	NA	Not applicable
ACDP	Air Contaminant Discharge Permit	NO _x	Nitrogen oxides
Aet	Federal Clean Air Act	O ₂	Oxygen
ASTM	American Society of Testing and Materials	OAR	Oregon Administrative Rules
		ODEQ	Oregon Department of Environmental Quality
Btu	British thermal unit	ORS	Oregon Revised Statutes
CFR	Code of Federal Regulations	O&M	Operation and maintenance
CO	Carbon Monoxide	Pb	Lead
CO ₂ e	Carbon-Dioxide-equivalent	PCD	Pollution Control Device
CPMS	Continuous parameter monitoring system	PM	Particulate matter
		PM ₁₀	Particulate matter less than 10 microns in size
DEQ	Department of Environmental Quality	PM _{2.5}	Particulate matter less than 2.5 microns in size
dsef	Dry standard cubic feet	ppm	Parts per million
EF	Emission factor	PSEL	Plant Site Emission Limit
EPA	US Environmental Protection Agency	psia	pounds per square inch, actual
EU	Emissions Unit	RICE	reciprocating internal combustion engine
FCAA	Federal Clean Air Act	SERP	Source emissions reduction plan
FSA	Fuel sampling and analysis	SI	spark ignition
GDF	gasoline dispensing facility	SO ₂	Sulfur dioxide
GHG	greenhouse gas	ST	Source test
gr/dsef	Grain per dry standard cubic feet (1 pound = 7000 grains)	ULSD	ultra-low sulfur diesel
HAP	Hazardous Air Pollutant as defined by OAR 340-244-0040	VE	Visible emissions
HCFC	Halogenated Chloro-Fluoro- Carbons	VMT	Vehicle miles traveled
ID	Identification number or label	VOC	Volatile organic compounds
I&M	Inspection and maintenance		

Modified EPA Method 9: As used in this permit "Modified EPA Method 9" is defined as follows:

Opacity must be measured in accordance with EPA Method 9. For all standards, the minimum observation period must be six minutes, though longer periods may be required by a specific rule or permit condition. Aggregate times (e.g., 3 minutes in any one hour) consist of the total duration of all readings during the observation period that are equal to or greater than the opacity percentage in the standard, whether or not the readings are consecutive. Each EPA Method 9 reading represents 15 seconds of time. [See also the definition of "Opacity" in OAR 340-200-0020]

PERMITTED ACTIVITIES

1. Until such time as this permit expires or is modified or revoked, the permittee is allowed to discharge air contaminants from those processes and activities directly related to or associated with air contaminant source(s) in accordance with the requirements, limitations, and conditions of this permit. [OAR 340-218-0010 and 340-218-0120(2)]
2. All conditions in this permit are federally enforceable except as specified below:
 - 2.a. Conditions 8, 9, 10, 12, 15, G4, and G8 (OAR 340-248-0005 through 340-248-0180) are only enforceable by the state. [OAR 340-218-0060]
 - 2.b. Attachment 1 of this permit provides a cross-reference for SIP and Title V program rules that have been renumbered in the current Oregon Administrative Rules. [OAR 340-218-0060 and 340-218-0070]

EMISSIONS UNIT (EU) AND POLLUTION CONTROL DEVICE (PCD) IDENTIFICATION

3. The emissions units regulated by this permit are the following [OAR 340-218-0040(3)]:

Emissions unit Description	EU ID
2 Ingersoll-Rand natural gas reciprocating engines (IR1 and IR2)	EU1
Sellars 2.5 MMBtu/hr external combustion boiler – space heater	EU5
Solar Turbine T-1300 (portable)	EU6
457 HP Cummins emergency generator	EU7

EMISSION LIMITS AND STANDARDS, TESTING, MONITORING, AND RECORDKEEPING REQUIREMENTS

The following tables and conditions contain the applicable requirements along with the monitoring, and recordkeeping requirements for the emissions units to which these requirements apply.

Facility-wide Requirements

Applicable Requirement	Condition Number	Pollutant/Parameter	Limit/Standard	Monitoring Requirement	Monitoring Condition
340-208-0110(2) and (3)(a)	4	Visible Emissions	20% Opacity	Visual survey	7
340-208-0210(2)	5	Fugitive emissions	Minimize	Fugitive Dust Control Plan	7
				Complaint investigation	7 and 12
340-208-0300	8	Nuisance	No nuisance	Complaint investigation	12

Applicable Requirement	Condition Number	Pollutant/Parameter	Limit/Standard	Monitoring Requirement	Monitoring Condition
340-0208-0550	9	Odor	Minimize odor-bearing gases	Complaint investigation	12
340-208-0450	10	PM > 250 μ	No observable deposition off site	Complaint investigation	12
340-222-0041	13	Fuel sulfur content	Natural gas only	Recordkeeping	19
40 CFR Part 68	14	Risk management	Risk management plan	NA	14

Visible and Fugitive Emissions Conditions

4. **Applicable Requirement:** The permittee must not cause or allow the emissions of any air contaminant into the atmosphere from any activities or emission units for a period or periods aggregating more than three minutes in any one hour which is equal to or greater than 20% opacity, excluding uncombined water. [OAR 340-208-0110(2) and 340-208-0110(3)(a)]
5. **Applicable Requirement:** The permittee must not allow or permit any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired or demolished; or any equipment to be operated, without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions must include, but not be limited to the following: [OAR 340-208-0210(2)]
 - 5.a. use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;
 - 5.b. application of asphalt¹, oil, water, or other suitable chemicals on unpaved roads, materials stockpiles, and other surfaces which can create airborne dusts;
 - 5.c. full or partial enclosure of materials stockpiles in cases where application of oil, water, or chemicals are not sufficient to prevent particulate matter from becoming airborne;
 - 5.d. installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials;
 - 5.e. adequate containment during sandblasting or other similar operations; and
 - 5.f. covering, at all times when in motion, open bodied trucks transporting materials likely to become airborne.
6. **Applicable Requirement:** If sources of visible emissions are identified, the permittee must: [OAR 340-218-0050(3)(a)]
 - 6.a. Immediately take corrective action to minimize the fugitive emissions, including but not limited to those actions identified in condition 5; or
 - 6.b. Conduct a Modified EPA Method 9 (see page 3 of the permit) test within 24 hours.
7. **Monitoring Requirement:** At least once each semi-annual reporting period the permittee must visually survey the plant for any sources of excess fugitive emissions. For the purpose of this

¹ Although specified in the rules, DEQ discourages the use of asphalt and oil as dust suppressants because of the negative environmental impact on other media.

survey, excess fugitive emissions are considered to be any visible emissions that leave the plant site boundaries. The person conducting the observation does not have to be EPA Method 9 certified. However, the individual should be familiar with the procedures of EPA Method 9, including using the proper location to observe visible emissions. [OAR 340-218-0050(3)(a)]

- 7.a. Recordkeeping Requirement: The permittee must maintain records of the fugitive emissions surveys, corrective actions (if necessary), and/or the results of any modified EPA Method 9 tests.

Nuisance Conditions

8. Applicable Requirement: The permittee must not cause or allow air contaminants from any source to cause a nuisance. Nuisance conditions will be verified by Department personnel. [OAR 340-208-0300] This condition is only enforceable by the state.
9. Applicable Requirement: The permittee must use the highest and best practicable treatment currently available to minimize odor-bearing gases emitted into the atmosphere. [OAR 340-208-0550(1)] This condition is only enforceable by the state.
10. Applicable Requirement: The permittee must not cause or permit the emission of any particulate matter larger than 250 microns in size at sufficient duration or quantity, as to create an observable deposition upon the real property of another person. DEQ will verify that the deposition exists and will notify the permittee that the deposition must be controlled. [OAR 340-208-0450] This condition is only enforceable by the state.
11. Applicable Requirement: The permittee must immediately investigate following the receipt of a nuisance complaint and provide a response to the complainant within 24 hours, if possible. In addition, the permittee must provide notice by phone, e-mail, or facsimile to the Northwest Region Office of DEQ within 24 hours of all nuisance complaints received by the permittee during the operation of the facility. [OAR 340-208-0450] This condition is only enforceable by the state.
12. Monitoring Requirement: The permittee must maintain a log of each nuisance complaint received by the permittee during the operation of the facility.
- 12.a. Recordkeeping Requirement: The complaint log documentation must include date of contact, time of observed nuisance condition, description of nuisance condition, location of receptor, status of plant operation during the observed period, and time of response to complainant. [OAR 340-218-0050(3)(a)] This condition is only enforceable by the state.

Fuel sulfur limit

13. Applicable Requirement: The permittee must not burn any fuel other than natural gas. [OAR 340-222-0041]

Accidental Release Prevention

14. Applicable Requirement: Should this stationary source become subject to the accidental release prevention regulations in 40 CFR Part 68, then the permittee must submit a risk management plan (RMP) by the date specified in 40 CFR 68.10 and comply with the plan and all other applicable

Part 68 requirements. [40 CFR Part 68]

Emissions Unit Requirements

Emissions unit	Applicable Requirement	Condition Number	Pollutant/Parameter	Limit/Standard	Monitoring Requirement	Monitoring Condition
EU4	340-208-0600	15	Opacity	20% (30 sec)	Fuel monitoring	19
	340-208-0110(2)	16	Opacity	20% (3 min aggregate)	Fuel monitoring	19
	340-226-0210(1)(b)	17	PM	0.1 gr/dsec	Fuel monitoring	19
	40 CFR 63 Subpart ZZZZ	21	CO	reduce CO emissions by 93%	Source test and CPMS	22, 25 and 29
		or 23	CO	or limit exhaust to 47 ppmvd at 15% O ₂	Source test and CPMS	24, 25 and 29
		28.a	pressure drop	maintain pressure drop across catalyst	Source test and CPMS	22 or 24 and 29
		28.b	pressure drop	reestablish pressure drop readings if oxidation catalyst changed	Source test	22 or 24
		28.c	temperature	maintain exhaust temperature-to-inlet of oxidation catalyst	Source test and CPMS	22 or 24 and 29
		30	emissions	minimize emissions	Recordkeeping	27.e
		31	idle time	minimize idle time	Recordkeeping	27.e
	40 CFR 63.1-15, NESHAP General Provisions	35	Notifications and Recordkeeping		Recordkeeping	26.i-26.l and 30
EUS	340-208-0110(2)	16	Opacity	20% (3 min aggregate)	Fuel monitoring	19

Emissions unit	Applicable Requirement	Condition Number	Pollutant/Parameter	Limit/Standard	Monitoring Requirement	Monitoring Condition
	340-228-0210(1)(b)	18	PM	0.1 gr/dsef	Fuel monitoring	19
EU6	340-208-0600	15	Opacity	20% (30 sec)	Fuel monitoring	19
	340-208-0110(2)	16	Opacity	20% (3 min aggregate)	Fuel monitoring	19
	340-226-0210(1)(b)	17	PM	0.1 gr/dsef	Fuel monitoring	19
	40 CFR Subpart GG-60.332	36	NO _x	see formulas in condition	Stack Testing	38 and 39
	40 CFR Subpart GG-60.333(b)	37	fuel sulfur content	0.8% sulfur by weight	Current Tariff or contract	38
	40 CFR 60.11(d)	40	Maintenance/Operation requirement	Minimize emissions	Recordkeeping	41
EU7	340-208-0600	15	Opacity	20% (30 sec)	Fuel monitoring	19
	340-208-0110(2)	16	Opacity	20% (3 min aggregate)	Fuel monitoring	19
	340-226-0210(1)(b)	17	PM	0.1 gr/dsef	Fuel monitoring	19
	40 CFR 63 Subpart ZZZZ	32	good operation	perform maintenance	Recordkeeping	34
		33	maintain according to manufacturers' instructions or develop maintenance plan		Recordkeeping	34

15. Applicable Requirement: The permittee must not cause or allow the emissions of any air contaminant into the atmosphere from emissions unit EU1, EU6, and EU7 for a period or periods aggregating more than thirty (30) seconds in any one hour which is equal to or greater than 20% opacity, excluding uncombined water. [OAR 340-208-0600] This condition is only enforceable by the state.
16. Applicable Requirement: The permittee must not cause or allow the emissions of any air contaminant into the atmosphere from emissions units EU1, EU5, EU6 and EU7 for a period or periods aggregating more than three minutes in any one hour which is equal to or greater than 20% opacity, excluding uncombined water. [OAR 340-208-0110(2)]

17. Applicable Requirement: The permittee must not cause or allow the emission of particulate matter from emissions unit EU1, EU6, and EU7 in excess of 0.1 grains per dry standard cubic foot corrected to 12% CO₂ as measured by Oregon Method 5. [OAR 340-226-0210(1)(b)]
18. Applicable Requirement: The permittee must not cause or allow the emission of particulate matter from emissions unit EU5 in excess of 0.1 grains per dry standard cubic foot corrected to 12% CO₂ as measured by Oregon Method 5. [OAR 340-228-0210(1)(b)]
19. Monitoring and Recordkeeping Requirement: The permittee must record the quantity of natural gas used in EU1, EU6 and total facility usage each calendar month of operation.

NESHAP Requirements – Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

20. Applicable Requirement: The permittee must comply with the requirements contained within the NESHAP subpart ZZZZ by October 19, 2013, specifically: [40 CFR 63.6595(a)(1)]
 - 20.a. If the permittee chooses to comply with the 93% reduction across the CO catalyst, then conditions 21, 22, and 25 through 31 shall apply.
 - 20.b. If the permittee chooses to comply with the carbon monoxide limit in the exhaust of each engine of 47 ppmvd @ 15% O₂, then conditions 23, 24 and 25 through 31 shall apply.
21. Applicable Requirement: The permittee must reduce CO emissions by a minimum of 93% across the oxidation catalyst. This limit applies to each engine in emissions unit EU1 at all times, except as allowed under condition 31. [40 CFR 63.6603(a) and Tables 2d and 5]
22. Initial and Ongoing Performance Test: By no later than April 17, 2014, for compliance with condition 21, and within 180 days of changing the oxidation catalyst, the permittee must measure CO and O₂ emissions at the inlet and outlet of the oxidation catalyst from emissions unit EU1 using a portable CO and O₂ analyzer in accordance with ASTM D6522-00 or using stationary source test EPA methods 3A and 10. [40 CFR 63.6612, 63.6640(b), Table 4 and Table 5]
 - 22.a. The permittee shall notify DEQ at least 60 days prior to conducting these performance tests by submitting a source test plan in accordance with the Department's Source Sampling Manual and 40 CFR 63.7. Three test runs shall be performed, each a minimum of 60 minutes long. The test method used must conform with the following requirements:
 - 22.a.i. Using ASTM D6522-00 (2005). Methods 3A and 10 may be used as options to ASTM D6522-00 (2005). Measurements to determine O₂ must be made at the same time as the measurements for CO concentration; or
 - 22.a.ii. Using ASTM D6522-00 (2005) or Method 10 of 40 CFR appendix A. Methods 3A and 10 may be used as options to ASTM D6522-00 (2005). Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03 may also be used.
 - 22.b. Tests shall be performed at 100 percent of peak load of each tested engine, \pm 10 percent, plus 70 percent of peak load \pm 10 percent for one of the engines;
 - 22.c. The CO concentration must be corrected to a dry basis and to 15% O₂.
 - 22.d. During each test run or 4 hour data gathering period, the permittee shall record the following information:
 - 22.d.i. Date, time, emissions unit and monitoring point identification;
 - 22.d.ii. Pollutant emission results for the inlet and outlet of the oxidation catalyst, in ppmv and lbs/hr;

- 22.d.iii. ~~Engine Load in % of full load. The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status and/or test report;~~
- 22.d.iv. ~~All assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accuracy in percentage of true value must be provided.~~
- 22.d.v. ~~Engine parameters including the engine model number, the engine manufacturer, the year of purchase and the manufacturer's site-rated brake horsepower;~~
- 22.d.vi. ~~Oxidation catalyst pressure drop, inches H₂O;~~
- 22.d.vii. ~~Oxidation catalyst inlet temperature, °F;~~
- 22.d.viii. ~~Ambient temperature, °F;~~
- 22.d.ix. ~~Barometric pressure at test, mm Hg;~~
- 22.d.x. ~~Humidity of ambient air, g H₂O/g air;~~
- 22.d.xi. ~~O₂, % by volume;~~
- 22.d.xii. ~~CO₂, % by volume; and~~
- 22.d.xiii. ~~Fuel consumption, scf/hour for natural gas.~~
- 22.d.xiv. ~~For each test day, the permittee shall document the higher heating value of the natural gas, Btu/scf.~~
- 22.e. ~~To determine compliance with the percent reduction requirement, Equation 1 must be used:~~

$$\frac{C_i - C_o}{C_i} \times 100 = R \quad (\text{Eq. 1})$$

~~Where:~~

~~C_i = concentration of CO at the control device inlet;~~

~~C_o = concentration of CO at the control device outlet, and~~

~~R = percent reduction of CO emissions.~~

~~The carbon monoxide (CO) concentrations at the inlet and outlet of the control device must be normalized to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO₂).~~

23. ~~**Applicable Requirement:** The permittee must not cause to be discharged into the atmosphere from emissions unit EU1 any gases which contain carbon monoxide in excess of 47 ppmvd @ 15% O₂. This limit applies to each engine at all times, except as allowed under condition 31. [40 CFR 63.6603(a) and Table 2d and 5]~~
24. ~~**Initial and Ongoing Performance Test:** By no later than April 17, 2014, for compliance with condition 23, and within 180 days of changing the oxidation catalyst, the permittee must measure CO and O₂ emissions at the outlet of the oxidation catalyst from emissions unit EU1. [40 CFR 63.6612, 63.6640(b), Table 4 and Table 5]~~
- 24.a. ~~Select the sampling port location at the outlet of the oxidation catalyst and the number of traverse points using Method 1 or 1A of 40 CFR part 60, appendix A §63.7(d)(1)(i); and~~

- 24.b. ~~Determine the O₂ concentration of the stationary RICE exhaust at the sampling port location using Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522-00 (2005) at the same time and location as the measurements for CO concentration; and~~
 - 24.e. ~~Measure moisture content of the stationary RICE exhaust at the sampling port location using Method 4 of 40 CFR part 60, appendix A, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D-6348-03 at the same time and location as the measurements for CO concentration; and~~
 - 24.d. ~~Measure CO at the exhaust of the stationary RICE using Method 10 of 40 CFR part 60, appendix A, or ASTM Method D6522-00 (2005). Methods 3A and 10 may also be used as options to ASTM D6522-00 (2005). CO concentration must be at 15 percent O₂, dry basis. Results of this test consist of the average of the three 1-hour longer runs.~~
25. **Initial Compliance Requirement:** The permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) to continuously monitor catalyst inlet temperature for conditions 21 or 23 according to the following requirements: [40 CFR 63.6625(b)]
- 25.a. A site-specific monitoring plan must be prepared that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined below. Approval of monitoring system quality assurance and quality control procedures alternative to those specified in paragraphs 25.a through 25.h of this condition may be requested in the site-specific monitoring plan.
 - 25.a.i. The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;
 - 25.a.ii. Sampling interface (e.g., thermocouple) location such that the monitoring system will provide representative measurements;
 - 25.a.iii. Equipment performance evaluations, system accuracy audits, or other audit procedures;
 - 25.a.iv. The permittee shall maintain and operate each CPMS as specified in this section, or in a relevant standard, and in a manner consistent with good air pollution control practices. Ongoing operation and maintenance procedures in accordance with provisions below:
 - 25.a.iv.A. The permittee must keep the necessary parts for routine repairs of the affected CPMS equipment readily available.
 - 25.a.iv.B. The permittee must develop a written startup, shutdown, and malfunction plan for CPMS as specified in 40 CFR 63.6(e)(3). [40 CFR 63.8(c)(1)]
 - 25.a.iv.C. All CPMS shall be installed, operational, and the data verified as specified in the relevant standard either prior to or in conjunction with conducting performance tests under 40 CFR 63.7. Verification of operational status shall, at a minimum, include completion of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system. [40 CFR 63.8(c)(3)]
 - 25.b. A site-specific CPMS quality control program must be developed and submitted to DEQ for approval upon request. Each quality control program shall include, at a minimum, a written protocol that describes procedures for each of the following operations: [40 CFR 63.8(d)]

- 25.b.i. Initial and any subsequent calibration of the CPMS;
 - 25.b.ii. Determination and adjustment of the calibration drift of the CPMS;
 - 25.b.iii. Preventive maintenance of the CPMS, including spare parts inventory;
 - 25.b.iv. Data recording, calculations, and reporting;
 - 25.b.v. Accuracy audit procedures, including sampling and analysis methods; and
 - 25.b.vi. Program of corrective action for a malfunctioning CPMS.
- 25.c. As part of the quality control program, the permittee shall develop and submit to DEQ for approval upon request a site-specific performance evaluation test plan for the CPMS performance evaluation that shall include the following:
- 25.c.i. the evaluation program objectives;
 - 25.c.ii. an evaluation program summary;
 - 25.c.iii. the performance evaluation schedule;
 - 25.c.iv. data quality objectives; and
 - 25.c.v. both an internal and external QA program. Data quality objectives are the pre-evaluation expectations of precision, accuracy, and completeness of data.[40 CFR 63.8(e)(3)(i)]
- 25.d. Each CPMS must be installed, operated and maintained in continuous operation according to the procedures in the site-specific monitoring plan.
- 25.e. The CPMS must collect data at least once every 15 minutes (see also 40 CFR 63.6635).
- 25.f. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities cannot be used in data averages and calculations used to report emission or operating levels. All the valid data collected during all other periods must be used. [40 CFR 63.6635(c)]
- 25.g. For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.
- 25.h. The CPMS equipment performance evaluation, system accuracy audits, or other audit procedures must be conducted as specified in the site-specific monitoring plan at least annually.
- 25.i. A performance evaluation of each CPMS must be conducted in accordance with the site-specific monitoring plan.
26. **Recordkeeping Requirements:** For each CPMS, the following records must be kept: [40 CFR 63.6655(b)]
- 26.a. Catalyst inlet temperature data required by condition 28.c, reduced to 4-hour rolling averages;
 - 26.b. Pressure drop across the catalyst measured once per month;
 - 26.c. Each period during which a CPMS is malfunctioning or inoperative (including out-of-control periods);
 - 26.d. All required measurements needed to demonstrate compliance with conditions 21 or 23 (including, but not limited to, 15-minute averages of CPMS data, raw performance testing measurements, and raw performance evaluation measurements, that support data that the source is required to report). In lieu of maintaining a file of all CPMS subhourly measurements as required under this condition, the permittee shall retain the most recent consecutive three averaging periods of subhourly measurements and a file that contains a hard copy of the data acquisition system algorithm used to reduce the measured data into the reportable form of the standard.
 - 26.e. All results of performance tests and CPMS performance evaluations;
 - 26.f. All measurements as may be necessary to determine the conditions of performance tests

- 26.g. and performance evaluations;
- 26.h. All CPMS calibration checks;
- 26.i. All adjustments and maintenance performed on CPMS;
- 26.i. The permittee shall keep the written procedures required in condition 25.b on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR 63 Subpart ZZZZ, to be made available for inspection, upon request, by DEQ. If the performance evaluation plan is revised, the permittee shall keep previous (i.e., superseded) versions of the performance evaluation plan on record to be made available for inspection, upon request, by DEQ, for a period of 5 years after each revision to the plan. Where relevant, e.g., program of corrective action for a malfunctioning CPMS, these written procedures may be incorporated as part of the affected source's startup, shutdown, and malfunction plan to avoid duplication of planning and recordkeeping efforts. [40 CFR 63.8(d)(3)]
- 26.j. Each record must be kept readily accessible for expeditious review in hard copy or electronic form for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. [40 CFR 63.6660 and 40 CFR 63.10(b)(1)]
- 26.k. Requests for alternatives to the relative accuracy test for the CPMS as required in 40 CFR 63.8(f)(6)(i), if applicable.
- 26.l. Ongoing reporting and recordkeeping procedures:
- 26.l.i. All required CPMS measurements (including monitoring data recorded during unavoidable CPMS breakdowns and out-of-control periods);
- 26.l.ii. The date and time identifying each period during which the CPMS was inoperative except for zero (low-level) and high-level checks;
- 26.l.iii. The date and time identifying each period during which the CPMS was out of control, as defined in §63.8(c)(7);
- 26.l.iv. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions and parameter monitoring exceedances, as defined in the relevant standard(s), that occurs during startups, shutdowns, and malfunctions of the affected source;
- 26.l.v. The specific identification (i.e., the date and time of commencement and completion) of each time period of excess emissions and parameter monitoring exceedances, as defined in the relevant standard(s), that occurs during periods other than startups, shutdowns, and malfunctions of the affected source;
- 26.l.vi. The nature and cause of any malfunction (if known);
- 26.l.vii. The corrective action taken or preventive measures adopted;
- 26.l.viii. The nature of the repairs or adjustments to the CPMS that was inoperative or out of control;
- 26.l.ix. The total process operating time during the reporting period; and
- 26.l.x. All procedures that are part of a quality control program developed and implemented for CPMS under 40 CFR 63.8(d).
- 26.l.xi. To avoid duplicative recordkeeping efforts, the permittee may use the startup, shutdown, and malfunction plan or records kept to satisfy the recordkeeping requirements of the startup, shutdown, and malfunction plan specified in condition 30, provided that such plan and records adequately address the requirements of paragraphs 26.l.vi through 26.l.x. [40 CFR 63.10(c)]
- 26.l.xii. A written report of the results of the CPMS performance evaluation, as required under 40 CFR 63.8(e), simultaneously with the results of the performance test

required under 40 CFR 63.7, unless otherwise specified in the relevant standard.
[40 CFR 63.10(e)(2)(i)]

27. **Recordkeeping Requirements:** The following records must be kept to show compliance with conditions 21 or 23: [40 CFR 63.6655(a)]
 - 27.a. A copy of each notification and report submitted to comply with 40 CFR 63 Subpart ZZZZ, including all documentation supporting any Notification of Compliance Status submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv).
 - 27.b. Records of the occurrence and duration of each startup, shutdown, and malfunction of EU1, the oxidation catalyst, and monitoring equipment.
 - 27.c. Records of the instances (date and time) when idle time exceeds 30 minutes;
 - 27.d. Records of all required maintenance and calibration performed on the oxidation catalyst and monitoring equipment in order to demonstrate that EU1 and the oxidation catalyst were operated and maintained according to the maintenance plan. [40 CFR 63.6655(e)]
 - 27.e. Records of actions taken during periods of malfunction to minimize emissions in accordance with condition 30, including corrective actions to restore malfunctioning EU1 and the oxidation catalyst, and monitoring equipment to its normal or usual manner of operation.
28. **Applicable requirement:** The permittee must maintain the following for each oxidation catalyst:
 - 28.a. The pressure drop across the catalyst so that it does not change by more than 2 inches of water at 100 % load \pm 10% from the pressure drop across the catalyst that was measured during the initial performance test as detailed in condition 24. [40 CFR 63.6625(b), Tables 2b, 6 (10.a.v.)]
 - 28.b. If any oxidation catalyst is changed, the pressure drop readings must be reestablished and compliance with the emission limits listed in condition 21 or 23 must be retested in accordance with condition 24 within 90 days of installing the new catalyst. [40 CFR 63.6640(b)]
 - 28.c. The temperature of the exhaust so that the inlet temperature to each oxidation catalyst is greater than 450°F and less than 1350°F, based upon a 4-hour rolling average, while the engines in emissions unit EU1 are in operation. [40 CFR 63.6603(a), 40 CFR 63.6625(b), 40 CFR 63.6635(b), Tables 2b and 6 (10.a.)]
29. **Continuous Compliance:** Continuous compliance with conditions 21, 23, and 28 must be demonstrated by conducting subsequent testing every 8,760 hours or 3 years, whichever comes first in accordance with condition 22 and the following: [40 CFR 63.6640 and Table 6].
 - 29.a. Collect the catalyst inlet temperature data according to 40 CFR 63.6625(b); and
 - 29.b. Reduce these data to 4-hour rolling averages; and
 - 29.c. Maintain the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
 - 29.d. Measure the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
30. **Applicable Requirement:** At all times, including periods of startup, shutdown, and malfunction, the permittee must operate and maintain EU1, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires that the owner or operator reduce emissions

from the affected source to the greatest extent which is consistent with safety and good air pollution control practices. The general duty to minimize emissions does not require any further efforts to reduce emissions if levels required by condition 21 or 23 have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to DEQ which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. Malfunctions must be corrected as soon as practicable after their occurrence. [40 CFR 63.6(e)(1) and 40 CFR 63.6605]

31. Applicable Requirement: The permittee must minimize EU1 time spent at idle during startup and minimize startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards in condition 21 or 23 applicable to all times other than startup apply. [40 CFR 63.6625(h)]
32. Applicable Requirement: The permittee must perform the following maintenance on EU7 Emergency Generator: [40 CFR 63.6640 and Table 2d, 4.]
 - 32.a. Change oil and filter every 500 hours of operation or annually, whichever comes first;
 - 32.b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
 - 32.c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
33. Applicable Requirement: The permittee must operate and maintain EU7 according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions: [40 CFR 63.6625(e)]
34. Recordkeeping Requirement: The permittee must maintain maintenance logs and records of operation for EU7.
35. Applicable Requirement: The permittee must comply with the General Provisions in 40 CFR 63.1 through 63.15 that apply to the facility as listed in Table 8 of Subpart ZZZZ, which is incorporated by reference. For convenience, the table is also included in the Review Report attached to this permit. [40 CFR 63.6665]

~~New Source Performance Standards Subpart GG – Standards of Performance for Stationary Gas Turbines~~

36. Applicable Requirement: The permittee must not cause to be discharged into the atmosphere from EU6 any gases which contain nitrogen oxides in excess of the following: [40 CFR 60.332]

$$STD = 0.0150 \times \left(\frac{14.4}{Y} \right) + F$$

where:

~~STD = allowable NO_x emissions (percent by volume at 15 percent oxygen and on a dry basis).~~

~~Y = manufacturer's rated heat rate at manufacturer's rated load (kilojoules per watt hour), or actual measured heat rate based on the lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour.~~

~~F = NO_x emission allowance for fuel bound nitrogen = 0 (fuel bound nitrogen for natural gas).~~

37. Applicable Requirement: The permittee must not burn fuel in emissions unit EU6 which contains sulfur in excess of 0.8 percent by weight (8000 ppmw). Fuel sulfur content will be monitored and measured in accordance with condition 38.c. [40 CFR 60.333(b)]
38. Monitoring Requirement: The permittee must conduct monitoring for conditions 36 and 37 as follows:
 - 38.a. The permittee must operate EU6 on natural gas at all times. Fuel use must be monitored in conformance with condition 45.
 - 38.b. The permittee must perform the periodic source testing required in condition 39. In accordance with the January 19, 1999 custom fuel monitoring schedule (CFMS) approved by EPA Region X, fuel nitrogen monitoring is not required for sources using natural gas.
 - 38.c. The permittee must use a current, valid purchase contract, tariff sheet, or transportation contract for the natural gas, specifying that the maximum total sulfur content of the gaseous fuel is 20.0 grains/100 scf or less, to demonstrate compliance with condition 37. [40 CFR 60.331(u) and 40 CFR 60.334(h)(3)]
39. Source Testing Requirements: The permittee must demonstrate compliance with the NO_x emission limit contained in condition 36 as follows:
 - 39.a. One time per calendar year for EU6 if operated for more than 2000 hours in any calendar year
 - 39.b. Testing must be performed using EPA Method 20 in accordance with 40 CFR 60.335. The minimum time between tests must be six months.
 - 39.c. If the results from the first source test or two subsequent consecutive source tests are less than 75% of the emission limit, no further testing will be required during this permit term. The minimum time between tests must be six months. [40 CFR 60.335]
40. Applicable Requirement: At all times, including periods of startup, shutdown, and malfunction, the permittee must, to the extent practicable, maintain and operate EU6 in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 60.11(d)]
41. Recordkeeping Requirement: The permittee must maintain maintenance logs and records of operation for EU6 including the occurrence and duration of any startup, shutdown, or malfunction in operation. [40 CFR 60.7]

Insignificant Activities Requirements

42. Applicable Requirement: DEQ acknowledges that insignificant emissions units (IEUs) identified by rule as either categorically insignificant activities or aggregate insignificant emissions as defined in OAR 340-200-0020 exist at facilities required to obtain an Oregon Title V Operating Permit. IEUs must comply with all applicable requirements. In general, the requirements that could apply to IEUs are incorporated as follows:
 - 42.a. OAR 340-208-0110 (20% opacity)
 - 42.b. OAR 340-208-0210 (Fugitive Particulate)
 - 42.c. OAR 340-208-0600 (20% opacity, 30 seconds, for non-fuel burning equipment) [State

- only enforceable]
- 42.d. ~~OAR 340-208-0610 (Particulate matter weight standard except for equipment burning natural gas.)~~ [State only enforceable]
- 42.e. ~~OAR 340-226-0210 (0.1 gr/dsef for non-fugitive, non-fuel burning equipment)~~
- 42.f. ~~OAR 340-226-0310 (process weight limit for non-fugitive, non-fuel burning process equipment)~~
- 42.g. ~~OAR 340-228-0210 (0.1 gr/dsef corrected to 12% CO₂ or 50% excess air for fuel burning equipment)~~

Unless otherwise specified in this permit or an applicable requirement, DEQ is not requiring any testing, monitoring, recordkeeping, or reporting for the applicable emissions limits and standards that apply to IEUs. However, if testing were performed for compliance purposes, the permittee would be required to use the test methods identified in the definitions of "opacity" and "particulate matter" in OAR 340-208-0010 and perform the testing in accordance with DEQ's Source Sampling Manual.

PLANT SITE EMISSION LIMITS

43. Before October 19, 2013, the plant site emissions must not exceed the following limits for any 12 consecutive calendar month period: [OAR 340-222-0040 through OAR 340-222-0043]

PM/PM ₁₀ /PM _{2.5}	SO ₂	NO _x	eo	VOC	GHG	Monitoring Condition
24/14/9 tons/yr	39 tons/yr	344 tons/yr	104 tons/yr	39 tons/yr	74,000 tons CO ₂ e/yr; (63,150 metric tons CO ₂ e/yr)	45

44. On or after October 19, 2013, the plant site emissions must not exceed the following limits for any 12 consecutive calendar month period: [OAR 340-222-0040 through OAR 340-222-0043]

PM/PM ₁₀ /PM _{2.5}	SO ₂	NO _x	eo	VOC	GHG	Monitoring Condition
24/14/9 tons/yr	39 tons/yr	344 tons/yr	99 tons/yr	39 tons/yr	74,000 tons CO ₂ e/yr; (63,150 metric tons CO ₂ e/yr)	45

45. **Monitoring Requirements for Condition 43:** The permittee must determine compliance with the Plant Site Emission Limits established in condition 43 of this permit by conducting monitoring in accordance with the following procedures, test methods, and frequencies:

- 45.a. The permittee must monitor and record the following process parameters on a monthly basis:

Emissions Unit	Process Parameter	Units
EU1 2 I-R engines	Operating hours for each engine	Hours
	Fuel burned in each engine	Million cubic feet and million Btu
	Power output for each engine	1000 Brake horsepower hours
EU5	Hours of operation of boiler	Hours
EU6 Turbine	Operating hours	Hours
	Fuel burned in each turbine	Million cubic feet and million Btu

- 45.b. The permittee may collect and store the process parameters listed in the table above in electronic form, at any suitable location, but the data must be available for inspection at the facility, or at the permittee's District Office upon request in accordance with General Condition G11.
- 45.c. The permittee must install, calibrate, maintain and operate devices to monitor and record natural gas used for EU1 (2 I-R engines) and each turbine in EU6 in accordance with the manufacturer's instructions. Calibration and maintenance activities must be recorded in a log.
- 45.d. The permittee must calibrate, maintain and operate load monitoring and recording systems for EU1 (2 I-R engines) in accordance with the manufacturer's instructions. Calibration and maintenance activities must be recorded in a log.
- 45.e. For the purposes of determining compliance with the PSELs, the permittee must calculate monthly emissions from the facility using the emission factors in the table below and the monthly process parameters in the table above, recorded for the preceding month.
- 45.e.i. Each month the permittee must calculate the rolling total of emissions for EU1 and EU6 for the preceding twelve months as follows:

$$E_{EU} = \sum \left(\frac{P_{EU} \times EF_{EU}}{2000} \right) + AIE$$

Where:

- E = Pollutant emissions in tons per year
 P_{EU} = Process parameter for the previous 12 consecutive calendar month period as identified in condition 45.a.
 EF_{EU} = Emission factor identified for each emissions unit and pollutant identified in condition 45.f
 AIE = 1 ton per year

- 45.e.ii. Each month the permittee must calculate the rolling total of emissions for EU5 for the proceeding twelve months as follows:

$$E_{EU5} = \frac{(P_{EU5} \times HR_{EU5} \times HHV_{NG} \times EF_{EU5})}{2000}$$

Where:

- E_{EU5} = Pollutant emissions in tons per year
 P_{EU5} = Process parameter for the previous 12 consecutive calendar months period as identified in condition 45.a.
 HR_{EU5} = Heat Rate of EU5 = 2.5 mmbtu/hr
 HHV_{NG} = Higher heating value of natural gas, btu/cf
 EF_{EU5} = Emission factor for each pollutant identified in condition 45.f

$$45.e.iii. E_{Total} = E_{EU} + E_{EU5}$$

- 45.f. Emissions factors for calculating pollutant emissions:

Emissions Unit	Pollutant	Annual Emission Factor	Units
EU1 (2 I-R engines)	PM/PM ₁₀ /PM _{2.5}	9.99E-03	lbs/MMBtu
	SO ₂	0.263	lbs/MMCF
	NO _x	18.3	lbs/kBHP-hr
	CO	6.5	lbs/kBHP-hr
	VOC	1.18E-03	lbs/MMBtu
EU5 (heater)	PM/PM ₁₀ / PM _{2.5}	2.5	lbs/MMCF
	SO ₂	1.7	lbs/MMCF
	NO _x	100	lbs/MMCF
	CO	84	lbs/MMCF
	VOC	5.5	lbs/MMCF
EU6 (turbine)	PM/PM ₁₀ / PM _{2.5}	6.60E-03	lbs/MMBtu
	SO ₂	0.263	lbs/MMCF
	NO _x	238.1	lbs/MMCF
	CO	223.9	lbs/MMCF
	VOC	2.10E-03	lb/MMBtu

- 45.g. The emissions factors listed in condition 45.f are not enforceable limits unless otherwise specified in this permit. Compliance with PSELs must only be determined by the calculations contained in condition 45.e of this permit using the monitored parameters recorded during the reporting period and the emission factors contained in condition 45.f.

46. Testing Requirement: In addition to the testing required in conditions 22 and 24, the permittee must conduct an emission factor verification and/or performance test on each engine at 100% load in emissions unit EU1 in accordance with DEQ's Source Sampling Manual and condition 49 for the pollutants listed below, using the following test methods and minimum test frequencies: [OAR 340-212-0120 and 340-218-0050(3)(a)]

Pollutant	Test Method	Frequency	Purpose
NO _x	EPA Method 7E	Once during permit term	EF verification for condition 45.f
CO	EPA Method 10	Once during permit term	EF verification for condition 45.f
VOE	EPA Method 25A	Once during permit term	EF verification for condition 45.f

47. ~~Testing Requirement: If EU6 is operated for more than 2000 hours at this facility in any 12-month rolling period, the permittee must conduct an emission factor verification and/or performance test on the turbine in accordance with DEQ's Source Sampling Manual and condition 49 for the pollutants listed below, using the following test methods and minimum test frequencies: [OAR 340-212-0120 and 340-218-0050(3)(a)]~~

Pollutant	Test Method	Frequency	Purpose
NO _x *	EPA Method 20 or 7E	Once during permit term	EF verification for condition 45.f (or NSPS compliance if used for that purpose)
CO	EPA Method 10	Once during permit term	EF verification for condition 45.f

~~*This testing requirement may be met using the NSPS required testing contained in condition 39. Method 7E may be used if there is no significant stratification in the exhaust of the turbine.~~

EMISSION FEES

48. ~~Emission fees will be based on the Plant Site Emissions Limits, unless the permittee elects to report actual emissions for one or more permitted processes/pollutants. If the permittee reports actual emissions for one or more permitted processes/pollutants, the permitted emissions for the remaining permitted processes/pollutants will be based on the following table: [OAR 340-220-0090]~~

Emission Source Description	Permitted Process Code [DEQ codes]	PM ₁₀ (tons)	SO ₂ (tons)	NO _x (tons)	VOE (tons)
EU1 Engines	PS-I/P-1	1.4	0.04	341.9	16.4
EU5 Space Heater	GS-I/P-1	0.03	0.02	1.1	0.06
EU6 Turbine	GS-3/P-1	0.5	0.02	18.8	0.2
aggregate insignificant emissions	GS-I/P-1	1	1	1	1
	Total for fees	2	1	344	17

Where the total equals the higher of the emissions for each pollutant of EU1 or EU6 + EU5 + AI.

GENERAL TESTING REQUIREMENTS

49. ~~Unless otherwise specified in this permit, the permittee must conduct all testing in accordance with DEQ's Source Sampling Manual. [OAR 340-212-0120] All NO_x testing for compliance with NSPS requirements must be conducted in accordance with 40 CFR Part 60.~~
- 49.a. ~~Unless otherwise specified by a state or federal regulation, the permittee must submit a source test plan to DEQ at least 30 days prior to the date of the test. The test plan must~~

- ~~be prepared in accordance with the Source Sampling Manual and address any planned variations or alternatives to prescribed test methods. The permittee should be aware that if significant variations are requested, it may require more than 30 days for DEQ to grant approval and may require EPA approval in addition to approval by DEQ.~~
- 49.b. ~~Only regular operating staff may adjust the processes or emission control device parameters during a compliance source test and within two (2) hours prior to the tests. Any operating adjustments made during a compliance source test, which are a result of consultation during the tests with source testing personnel, equipment vendors, or consultants, may render the source test invalid.~~
- 49.c. ~~Unless otherwise specified by permit condition or Department approved source test plan, all compliance source tests must be performed as follows:~~
- 49.c.i. ~~at least 90% of the design capacity for new or modified equipment;~~
- 49.c.ii. ~~at least 90% of the maximum operating rate for existing equipment; or~~
- 49.c.iii. ~~at 90 to 110% of the normal maximum operating rate for existing equipment.~~
~~For purposes of this permit, the normal maximum operating rate is defined as the 90th percentile of the average hourly operating rates during a 12 month period immediately preceding the source test. Data supporting the normal maximum operating rate must be included with the source test report.~~
- 49.d. ~~Each source test must consist of at least three (3) test runs and the emissions results must be reported as the arithmetic average of all valid test runs. If for reasons beyond the control of the permittee a test run is invalid, DEQ may accept two (2) test runs for demonstrating compliance with the emission limit or standard.~~
- 49.e. ~~Source test reports prepared in accordance with DEQ's Source Sampling Manual must be submitted to DEQ within 45 days of completing any required source test, unless a different time period is approved in the source test plan submitted prior to the source test.~~

GENERAL MONITORING AND RECORDKEEPING REQUIREMENTS

The monitoring conditions in this section are based on OAR 340-218-0050(3)(a); unless otherwise specified.

50. The permittee must not knowingly render inaccurate any required monitoring device or method. [OAR 340-218-0050(3)(a)(E)]
51. Methods used to determine actual emissions for fee purposes must also be used for compliance determination and can be no less rigorous than the requirements of OAR 340-218-0080. [OAR 340-218-0050(3)(a)(F)]
52. Monitoring requirements must commence on the date of permit issuance unless otherwise specified in the permit or an applicable requirement. [OAR 340-218-0050(3)(a)(G)]

General Recordkeeping Requirements

The recordkeeping conditions in this section are based on OAR 340-218-0050(3)(b); unless otherwise specified.

53. The permittee must maintain the following general records of testing and monitoring required by this permit: [OAR 340-218-0050(3)(b)(A)]
 - 53.a. the date, place as defined in the permit, and time of sampling or measurements;

- 53.b. the date(s) analyses were performed;
 - 53.c. the company or entity that performed the analyses;
 - 53.d. the analytical techniques or methods used;
 - 53.e. the results of such analyses;
 - 53.f. the operating conditions as existing at the time of sampling or measurement; and
 - 53.g. the records of quality assurance for continuous monitoring systems (including but not limited to quality control activities, audits, calibration drift checks).
54. Unless otherwise specified by permit condition, the permittee must make every effort to maintain 100 percent of the records required by the permit. If information is not obtained or recorded for legitimate reasons (e.g., the monitor or data acquisition system malfunctions due to a power outage), the missing record(s) will not be considered a permit deviation provided the amount of data lost does not exceed 10% of the averaging periods in a reporting period or 10% of the total operating hours in a reporting period, if no averaging time is specified. Upon discovering that a required record is missing, the permittee must document the reason for the missing record. In addition, any missing record that can be recovered from other available information will not be considered a missing record. [OAR 340-214-0110, 340-212-0160, and 340-218-0050(3)(b)]
55. Recordkeeping requirements must commence on the date of permit issuance unless otherwise specified in the permit or an applicable requirement. [OAR 340-218-0050(3)(b)(C)]
56. Unless otherwise specified, the permittee must retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings (or other original data) for continuous monitoring instrumentation, and copies of all reports required by the permit. All existing records required by the previous Air Contaminant Discharge Permit or Oregon Title V Operating Permit must also be retained for five (5) years from the date of the monitoring sample, measurement, report, or application. [OAR 340-218-0050(b)(B)]
57. Monthly records must be available for inspection on or before the 30th calendar day following the last day of each calendar month.

REPORTING REQUIREMENTS

The reporting conditions in this section are based on OAR 340-218-0050(3)(c); unless otherwise specified.

General Reporting Requirements

58. Excess Emissions Reporting The permittee must report all excess emissions as follows: [OAR 340-214-0300 through 340-214-0360]
- 58.a. Immediately (within 1 hour of the event) notify DEQ of an excess emission event by phone, e-mail, or facsimile; and
 - 58.b. Within 15 days of the excess emissions event, submit a written report that contains the following information: [OAR 340-214-0340(1)]
 - 58.b.i. The date and time of the beginning of the excess emissions event and the duration or best estimate of the time until return to normal operation;
 - 58.b.ii. The date and time the owner or operator notified DEQ of the event;

- 58.b.iii. The equipment involved;
 - 58.b.iv. Whether the event occurred during planned startup, planned shutdown, scheduled maintenance, or as a result of a breakdown, malfunction, or emergency;
 - 58.b.v. Steps taken to mitigate emissions and corrective action taken, including whether the approved procedures for a planned startup, shutdown, or maintenance activity were followed;
 - 58.b.vi. The magnitude and duration of each occurrence of excess emissions during the course of an event and the increase over normal rates or concentrations as determined by continuous monitoring or best estimate (supported by operating data and calculations);
 - 58.b.vii. The final resolution of the cause of the excess emissions; and
 - 58.b.viii. Where applicable, evidence supporting any claim that emissions in excess of technology-based limits were due to any emergency pursuant to OAR 340-214-0360.
- 58.c. In the event of any excess emissions which are of a nature that could endanger public health and occur during non-business hours, weekends, or holidays, the permittee must immediately notify DEQ by calling the Oregon Accident Response System (OARs). The current number is 1-800-452-0311.
- 58.d. If startups, shutdowns, or scheduled maintenance may result in excess emissions, the permittee must submit startup, shutdown, or scheduled maintenance procedures used to minimize excess emissions to DEQ for prior authorization, as required in OAR 340-214-0310 and 340-214-0320. New or modified procedures must be received by DEQ in writing at least 72 hours prior to the first occurrence of the excess emission event. The permittee must abide by the approved procedures and have a copy available at all times.
- 58.e. The permittee must notify DEQ of planned startup/shutdown or scheduled maintenance events.
- 58.f. The permittee must continue to maintain a log of all excess emissions in accordance with OAR 340-214-0340(3). However, the permittee is not required to submit the detailed log with the semi-annual and annual monitoring reports. The permittee is only required to submit a brief summary listing the date, time, and the affected emissions units for each excess emission that occurred during the reporting period. [OAR 340-218-0050(3)(c)]
59. **Permit Deviations Reporting:** The permittee must promptly report deviations from permit requirements that do not cause excess emissions, including those attributable to upset conditions, as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. "Prompt" means within 15 days of the deviation. Deviations that cause excess emissions, as specified in OAR 340-214-0300 through 340-214-0360 must be reported in accordance with condition 58.
60. All required reports must be certified by a responsible official consistent with OAR 340-218-0040(5). [OAR 340-218-0050(3)(c)(D)]
61. Reporting requirements must commence on the date of permit issuance unless otherwise specified in the permit. [OAR 340-218-0050(3)(c)(E)]

Addresses of regulatory agencies are the following, unless otherwise instructed:

DEQ – Northwest Region
2020 SW 4th Ave. Suite 400
Portland, OR 97201-4987
(541) 229-5263

DEQ – Air Quality Division
811 SW Sixth Avenue
Portland, OR 97204
(503) 229-5359

Air Operating Permits
US Environmental Protection
Agency
Mail Stop OAQ-108
1200 Sixth Avenue
Seattle, WA 98101

Source Specific Reporting Requirements

62. The permittee must submit the following notifications in accordance with 40 CFR 63.6645:
 - 62.a. All of the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified;
 - 62.b. Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in 40 CFR 63.7(b)(1);
 - 62.c. Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii); and
 - 62.d. Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to 40 CFR 63.10(d)(2).
63. The semi-annual compliance report must contain the following [40 CFR 63.6650, Table 7]:
 - 63.a. If there are no deviations from the emission limitations in conditions 21 or 23 or operating limitations in condition 28, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CPMS, was out-of-control, as specified in 40 CFR 63.8(c)(7), a statement that there were not periods during which the CPMS was out-of-control during the reporting period; or
 - 63.b. For a deviation from any emission limitation or operating limitation during the reporting period, the information below:
 - 63.b.i. Company name and address.
 - 63.b.ii. Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
 - 63.b.iii. Date of report and beginning and ending dates of the reporting period.
 - 63.b.iv. For any malfunctions during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with 40 CFR 63.6605(b), including actions taken to correct a malfunction.
 - 63.b.v. The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
 - 63.b.vi. Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
 - 63.c. If there were periods during which the CPMS was out-of-control, as specified in 40 CFR 63.8(c)(7), the information in paragraphs 63.b.i through 63.b.iv and the following information must be included:
 - 63.c.i. The date and time that each malfunction started and stopped.

- 63.c.ii. The date, time, and duration that each CPMS was inoperative, except for zero (low-level) and high-level checks.
 - 63.c.iii. The date, time, and duration that each CPMS was out-of-control, including the information in 40 CFR 63.8(c)(8).
 - 63.c.iv. The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
 - 63.c.v. A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
 - 63.c.vi. A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
 - 63.c.vii. A summary of the total duration of CPMS downtime during the reporting period, and the total duration of CPMS downtime as a percent of the total operating time of the stationary RICE at which the CPMS downtime occurred during that reporting period.
 - 63.c.viii. An identification of each parameter and pollutant that was monitored at the stationary RICE.
 - 63.c.ix. A brief description of the stationary RICE.
 - 63.c.x. A brief description of the CPMS.
 - 63.c.xi. The date of the latest CPMS certification or audit.
 - 63.c.xii. A description of any changes in CPMS, processes, or controls since the last reporting period.
- 63.d. If the permittee submits a compliance report pursuant to this condition along with, or as part of, the semiannual monitoring report, and the compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to DEQ.

Semi-annual and Annual Reports

64. The permittee must submit three (3) copies of reports of any required monitoring at least every 6 months, completed on forms approved by DEQ. Six month periods are January 1 to June 30, and July 1 to December 31. One copy of the report must be submitted to the EPA and two copies to the DEQ regional office. All instances of deviations from permit requirements must be clearly identified in such reports: [OAR 340-218-0050(3)(c)(A) and 340-218-0080(6)(d)]
- 64.a. The first semi-annual report is due on July 30 and must include the semi-annual compliance certification, OAR 340-218-0080;
- 64.b. The annual report is due on February 15 and must consist of the following:
- 64.b.i. the emission fee report; [OAR 340-220-0100]
 - 64.b.ii. the excess emissions upset log; [OAR 340-214-0340]
 - 64.b.iii. the second semi-annual compliance certification; [OAR 340-218-0080]
 - 64.b.iv. The complaint log, as required by condition 12;
 - 64.b.v. An annual summary of engine operation, including:
 - 64.b.v.A. total fuel use for each emissions unit operated (EU1, EU5, EU6, and EU7);
 - 64.b.v.B. total power output for each engine operated (EU1);

- 64.b.v.C. total operating hours for each engine or turbine operated (EU1 and EU6); and
- 64.b.vi. the annual emissions, calculated monthly for each 12-consecutive calendar month period.
65. The semi-annual compliance certification must include the following (provided that the identification of applicable information may cross-reference the permit or previous reports, as applicable): [OAR 340-218-0080(6)(c)]
- 65.a. The identification of each term or condition of the permit that is the basis of the certification;
- 65.b. The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period, and whether such methods or other means provide continuous or intermittent data. Such methods and other means must include, at a minimum, the methods and means required under OAR 340-218-0050(3). *Note: Certification of compliance with the monitoring conditions in the permit is sufficient to meet this requirement, except when the permittee must certify compliance with new applicable conditions that are not yet in the permit. When certifying compliance with new applicable conditions that are not yet in the permit, the permittee must provide the information required by this condition.* If necessary, the owner or operator also must identify any other material information that must be included in the certification to comply with section 113(c)(2) of the FCAA, which prohibits knowingly making a false certification or omitting material information;
- 65.c. The status of compliance with terms and conditions of the permit for the period covered by the certification, based on the method or means designated in condition 65.b. The certification must identify each deviation and take it into account in the compliance certification. The certification must also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance, as defined under OAR 340-200-0020, occurred; and
- 65.d. Such other facts as DEQ may require to determine the compliance status of the source.
- 65.e. Notwithstanding any other provision contained in any applicable requirement, the owner or operator may use monitoring as required under OAR 340-218-0050(3) and incorporated into the permit, in addition to any specified compliance methods, for the purpose of submitting compliance certifications. [OAR 340-218-0080(6)(e)]
66. ~~Greenhouse Gas Registration and Reporting: If the calendar year emission rate of greenhouse gases (CO₂e) is greater than or equal to 2,756 tons (2,500 metric tons), the permittee must register and report its greenhouse gas emissions with DEQ in accordance with OAR 340-215. The greenhouse gas report must be certified by the responsible official consistent with OAR 340-218-0040(5).~~
67. ~~Notwithstanding any other provision contained in any applicable requirement, the owner or operator may use monitoring as required under OAR 340-218-0050(3) and incorporated into the permit, in addition to any specified compliance methods, for the purpose of submitting compliance certifications. [OAR 340-218-0080(6)(e)]~~

Pages 27 - 35 redacted -- outside the scope of the SIP