

MAJOR SOURCE OPERATING PERMIT

PERMITTEE: TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
FACILITY NAME: STATION 85
FACILITY/PERMIT NO.: 101-0021
LOCATION: BUTLER, CHOCTAW COUNTY, ALABAMA

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: DRAFT
Effective Date: May 5, 2025
Expiration Date: May 4, 2030

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General Permit Provisos	
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<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in ADEM Admin. Code r. 335-3-16-.13(1)(a)5.</p>	<p>ADEM Admin. Code r. 335-3-16-.02(6)</p>
<p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p>	<p>ADEM Admin. Code r. 335-3-16-.12(2)</p>
<p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivisions, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(e)</p>
<p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(f)</p> <p>ADEM Admin. Code r. 335-3-16-.05(g)</p>
<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(h)</p>

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<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	ADEM Admin. Code r. 335-3-16-.05(i)
<p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Air Division, within 30 days or for such other reasonable time as the Air Division may set, any information that the Air Division may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Air Division copies of records required to be kept by this permit.</p>	ADEM Admin. Code r. 335-3-16-.05(j)
<p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	ADEM Admin. Code r. 335-3-16-.05(k)
<p>9. <u>Certification of Truth, Accuracy, and Completeness</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	ADEM Admin. Code r. 335-3-16-.07(a)
<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p> <ul style="list-style-type: none"> (a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; 	ADEM Admin. Code r. 335-3-16-.07(b)

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<p>(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.</p> <p>11. Compliance Provisions</p> <p>(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.</p> <p>(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.</p> <p>12. Compliance Certification</p> <p>The permittee shall submit a complete and accurate compliance certification by July 4th of each year for each reporting period of this permit (May 5th – May 4th).</p> <p>(a) The compliance certification shall include the following:</p> <ol style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with ADEM Admin. Code r. 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements); (4) Whether compliance has been continuous or intermittent; (5) Such other facts as the Air Division may require to determine the compliance status of the source; <p>(b) The compliance certification shall be submitted to:</p> <p style="text-align: center;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463 and to:</p> <p style="text-align: center;">EPA Region 4 via email at EPA_R4_CAA_Reports@epa.gov or through the EPA's Compliance and Emissions Data Reporting Interface (CEDRI)</p>	<p>ADEM Admin. Code r. 335-3-16-.07(c)</p> <p>ADEM Admin. Code r. 335-3-16-.07(e)</p>

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<p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <ul style="list-style-type: none"> (a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire. (b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit. (c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. (d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements. <p>14. <u>Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p> <p>15. <u>Equipment Maintenance or Breakdown</u></p> <ul style="list-style-type: none"> (a) In case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Air Division at least (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following: <ul style="list-style-type: none"> (1) Identification of the specific facility to be taken out of service as well as its location and permit number; (2) The expected length of time that the air pollution control equipment will be out of service; 	<p>ADEM Admin. Code r. 335-3-16-.13(5)</p> <p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p> <p>ADEM Admin. Code r. 335-3-1-.07(1),(2)</p>

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<p>(3) The nature and quality of emissions of air contaminants likely to occur during the shutdown period;</p> <p>(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;</p> <p>(5) The reasons that it would be impossible or impractical to shut down the sources operation during the maintenance period.</p> <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director will be notified when the breakdown has been corrected.</p>	
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>ADEM Admin. Code r. 335-3-1-.08</p>
<p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p>	<p>ADEM Admin. Code r. 335-3-4-.02</p>

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<p>(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</p> <p>(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p> <p>(3) By paving;</p> <p>(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions.</p> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Air Division prior to utilization.</p> <p>19. Additions and Revisions</p> <p>Any modifications to this source shall comply with the modification procedures in ADEM Admin. Code r. 335-3-16-.13 or 335-3-16-.14.</p> <p>20. Recordkeeping Requirements</p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <p>(1) The date, place, and time of all sampling or measurements;</p> <p>(2) The date analyses were performed;</p> <p>(3) The company or entity that performed the analyses;</p> <p>(4) The analytical techniques or methods used;</p> <p>(5) The results of all analyses; and</p> <p>(6) The operating conditions that existed at the time of sampling or measurement.</p> <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 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 for continuous monitoring instrumentation and copies of all reports required by the permit.</p>	<p>ADEM Admin. Code r. 335-3-16-.13 and 335-3-16-.14</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)2.</p>

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21. Reporting Requirements	
(a) Reports to the Air Division of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with ADEM Admin. Code r. 335-3-16-.04(9).	ADEM Admin. Code r. 335-3-16-.05(c)3.
(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.	
22. Emission Testing Requirements	
Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.	ADEM Admin. Code r. 335-3-1-.05(3) and 335-3-1-.04(1)
The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.	
To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:	ADEM Admin. Code r. 335-3-1-.04
(a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.	
(b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures requires probe cleaning).	
(c) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.	
(d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.	
A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.	ADEM Admin. Code r. 335-3-1-.04

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<p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p> <p>23. <u>Payment of Emission Fees</u></p> <p>(a) The permittee shall remit the annual Operating Permit Fees required by ADEM Admin. Code r. 335-1-7-.04 according to the schedule in ADEM Admin. Code r. 335-1-7-.05.</p> <p>(b) The permittee shall submit its estimate of actual emissions for the previous calendar year according to the schedule in ADEM Admin. Code r. 335-1-7-.05.</p> <p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p> <p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR §82.166. Reports shall be submitted to the US EPA and the Department as required.</p> <p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <p>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</p> <p>(b) The owner or operator shall submit one of the following:</p>	<p>ADEM Admin. Code r. 335-1-7-.04</p> <p>ADEM Admin. Code r. 335-1-7-.05</p> <p>ADEM Admin. Code r. 335-3-1-.04(1)</p> <p>ADEM Admin. Code r. 335-3-16-.05(a)</p> <p>40 CFR Part 68</p>

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<p>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a) or,</p> <p>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</p> <p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will make the permit readily available for inspection by any or all persons who may request to see it.</p> <p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p> <p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p> <p>30. <u>Fuel-Burning Equipment</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-4-.03.</p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-5-.01.</p> <p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-4-.04.</p>	<p>ADEM Admin. Code r. 335-3-16-.02(2)</p> <p>ADEM Admin. Code r. 335-3-1-.10</p> <p>ADEM Admin. Code r. 335-3-4-.01(1)</p> <p>ADEM Admin. Code r. 335-3-4-.03</p> <p>ADEM Admin. Code r. 335-3-5-.01</p> <p>ADEM Admin. Code r. 335-3-4-.04</p>

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<p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p>
<p>33. <u>Open Burning</u></p> <p>Precautions should be taken to ensure that no person shall ignite, cause to ignite, permit to be ignited, or maintain any open fire in such a manner as to cause the Department's rules and regulations applicable to open burning to be violated.</p>	<p>ADEM Admin. Code r. 335-3-3-.01</p>
<p>34. <u>Permit Shield</u></p> <p>A Permit Shield exists under this operating permit in accordance with ADEM Admin. Code r. 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in this operating permit.</p>	<p>ADEM Admin. Code r. 335-3-16-.10</p>

Emission Unit Nos. 001 and 002 (Mainline Unit Nos. 1 and 2)

Summary Page

Description: Two (2) 4,735 hp Caterpillar G3616 TALE, 4-stroke, Lean-burn Natural Gas-fired Reciprocating Engines each with an Oxidation Catalyst (MLU 1 and 2)

Permitted Operating Schedule: $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{365 \text{ Days}}{\text{Year}} = \frac{8760 \text{ Hours}}{\text{Year}}$

Emission Limitations:

Emission Point Nos.	Description	Pollutant	Emission Limit	Regulation
001 - 002	Two (2) 4,735 hp Caterpillar G3616 TALE, 4-stroke, Lean-burn Natural Gas-fired Reciprocating Engines each with an Oxidation Catalyst	NO _x	6.79 lb/hr	ADEM Admin. Code r. 335-3-14-.04
			2.0 g/hp-hr OR 160 ppmvd at 15% O ₂	ADEM Admin. Code r. 335-3-10-.02(88) 40 CFR Part 60, Subpart JJJJ (NSPS)
		CO	9.47 lb/hr	ADEM Admin. Code r. 335-3-14-.04
			4.0 g/hp-hr OR 540 ppmvd at 15% O ₂	ADEM Admin. Code r. 335-3-10-.02(88) 40 CFR Part 60, Subpart JJJJ (NSPS)
			≥ 93% Reduction	ADEM Admin. Code r. 335-3-11-.06(103) 40 CFR Part 63, Subpart ZZZZ (NESHAP)
		VOC	6.26 lb/hr	ADEM Admin. Code r. 335-3-14-.04
			1.0 g/hp-hr OR 86 ppmvd at 15% O ₂	ADEM Admin. Code r. 335-3-10-.02(88) 40 CFR Part 60, Subpart JJJJ (NSPS)

Emission Unit Nos. 001 and 002 (Mainline Unit Nos. 1 and 2)

Unit Specific Provisos

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1. <u>Applicability</u>	
(a) These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-16-.03
(b) These units are subject to the applicable provisions of 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, and 40 CFR Part 63, Subpart A as specified in Table 8 to Subpart ZZZZ.	ADEM Admin. Code r. 335-3-11-.06(103)
(c) These units are subject to the applicable provisions of 40 CFR Part 60, Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, and 40 CFR Part 60, Subpart A as specified in Table 3 to Subpart JJJJ.	ADEM Admin. Code r. 335-3-10-.02(88)
(d) These units are subject to a synthetic minor source emission limit to restrict their potential to emit below the applicability threshold established at ADEM Admin. Code r. 335-3-14-.04, Air Permits Authorizing Construction in Clean Areas [Prevention of Significant Deterioration (PSD)].	ADEM Admin. Code r. 335-3-14-.04
2. <u>Emission Standards</u>	
(a) The permittee shall not discharge more than one six-minute average opacity greater than 20% in any 60-minute period from either of these units. At no time shall the permittee discharge a six-minute average opacity of particulate emissions greater than 40% from either of these units.	ADEM Admin. Code r. 335-3-4-.01(1)
(b) <i>PSD – Synthetic Minor Source Requirements</i>	
(i) The permittee shall not cause or allow emissions of nitrogen oxides (NO _x) from each unit in excess of 6.79 lb/hr.	ADEM Admin. Code r. 335-3-14-.04
(ii) The permittee shall not cause or allow emissions of carbon monoxide (CO) from each unit in excess of 9.47 lb/hr.	ADEM Admin. Code r. 335-3-14-.04
(iii) The permittee shall not cause or allow emissions of volatile organic compounds (VOC) from each unit in excess of 6.26 lb/hr.	ADEM Admin. Code r. 335-3-14-.04
(c) <i>40 CFR Part 63, Subpart ZZZZ</i>	
(i) <i>Emission Limitation.</i> In accordance with 40 CFR §63.6600(b) and Table 2a to Subpart ZZZZ, the permittee shall reduce carbon monoxide (CO) emissions from each unit by 93% or more by the use of an oxidation catalyst.	ADEM Admin. Code r. 335-3-11-.06(103)

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<p>(ii) <i>Operating Limitations.</i> In accordance with 40 CFR §63.6600(b) and Table 2b to Subpart ZZZZ, the permittee shall:</p> <p>A. Maintain the catalyst so that the pressure drop across the catalyst does not change by more than two inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the most recent performance test that demonstrated compliance; and</p> <p>B. Maintain the temperature of each unit's exhaust so that the catalyst inlet temperature is $\geq 450^{\circ}\text{F}$ and $\leq 1350^{\circ}\text{F}$.</p> <p>(iii) The permittee shall comply with the applicable emission limitations and operating limitations at all times, except during periods of startup, shutdown, and malfunction.</p> <p>(iv) The permittee shall operate and maintain these units, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p>
<p>(d) 40 CFR Part 60, Subpart JJJJ</p> <p>(i) The permittee shall not cause or allow emission of nitrogen oxides (NO_x) from each unit in excess of 2.0 g/hp-hr or 160 ppmvd at 15% O_2.</p> <p>(ii) The permittee shall not cause or allow emissions of carbon monoxide (CO) from each unit in excess of 4.0 g/hp-hr or 540 ppmvd at 15% O_2.</p> <p>(iii) The permittee shall not cause or allow emissions of volatile organic compounds (VOC) from each unit in excess of 1.0 g/hp-hr or 86 ppmvd at 15% O_2.</p>	<p>ADEM Admin. Code r. 335-3-10-.02(88)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p>
<p>3. <u>Compliance and Performance Test Methods and Procedures</u></p> <p>(a) <i>PSD-Synthetic Minor Source Requirements</i></p> <p>(i) Compliance with the nitrogen oxides (NO_x) emission rate applicable to each of these units shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Method 7E in Appendix A of 40 CFR Part 60.</p> <p>(ii) Compliance with the carbon monoxide (CO) emission rate applicable to each of these units shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Method 10 in Appendix A of 40 CFR Part 60.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-1-.05</p>

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<p>(iii) Compliance with the volatile organic compound (VOC) emission rate applicable to each of these units shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Methods 25A and/or 18 in Appendix A of 40 CFR Part 60.</p> <p>(b) 40 CFR Part 63, Subpart ZZZZ</p> <p>(i) Performance tests to determine compliance with the carbon monoxide (CO) emission limitation applicable to each of these units shall be conducted in accordance with the procedures and methods specified in 40 CFR §63.6620 and Table 4 to Subpart ZZZZ.</p> <p>(ii) If testing is required, opacity shall be determined by 40 CFR Part 60, Appendix A, Reference Method 9.</p> <p>(iii) During each run of any performance testing conducted, the permittee shall monitor and record the pressure differential across the catalyst (inches of water column) at the beginning and end of the test run and at least once every 10 minutes during the test run. The average pressure differentials for each test run that indicated compliance shall be averaged to determine the overall average pressure differential for the testing event. Using the overall average pressure differential for the testing event, the pressure differential range that demonstrates compliance shall be established according to the following equation:</p> $P_{\text{LOW}} = P_T - 2$ $P_{\text{HIGH}} = P_T + 2$ <p>Where:</p> <p>P_{HIGH} = Highest pressure differential across the catalyst that demonstrates compliance</p> <p>P_{LOW} = Lowest pressure differential across the catalyst that demonstrates compliance</p> <p>P_T = Average pressure differential across the catalyst for the testing event</p> <p>(c) 40 CFR Part 60, Subpart JJJJ</p> <p>(i) Performance tests to determine compliance with the nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compound (VOC) emission limitations applicable to each of these units shall be conducted in accordance with the procedures and methods specified in 40 CFR §60.4244 and Table 2 to Subpart JJJJ.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p>

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<p>4. <u>Emission Monitoring</u></p> <p>(a) <i>PSD-Synthetic Minor Source Requirements</i></p> <p>(i) Emission testing shall be conducted concurrently with the required performance testing of 40 CFR Part 60, Subpart JJJJ and 40 CFR Part 63, Subpart ZZZZ to determine compliance with the applicable PSD synthetic minor source emission standards for NO_x, CO, and VOC. The first emission testing conducted following the effective date of this permit shall be conducted in accordance with an approved EPA Reference Method for that pollutant. All subsequent emission testing during the permit term may be conducted using either an approved EPA Reference Method for that pollutant or an alternate method approved in advance by the Air Division. Should a unit not run for the purposes of production during the required testing period, no periodic monitoring will be required.</p> <p>(ii) The permittee shall only fire natural gas in these units.</p> <p>(b) <i>40 CFR Part 63, Subpart ZZZZ</i></p> <p>(i) The permittee shall conduct performance testing annually (no more than 12 months elapsing between tests) to determine compliance with the applicable 40 CFR Part 63, Subpart ZZZZ emission standard for CO and reestablish the operating limitation for the pressure drop across the catalyst. If the results of any performance test indicate an engine is not in compliance with the applicable emission limitation or the permittee deviates from an operating limitation, the permittee shall conduct semiannual (no more than 6 months elapsing between tests) performance tests for that engine until the permittee has demonstrated compliance for two consecutive performance tests. For an engine that is taken out of service 30 days or more prior to the date the next performance test is due, the permittee shall conduct the performance test within 60 days of restarting the engine.</p> <p>(ii) The permittee shall conduct a performance test and reestablish the operating limitation for the pressure drop across the catalyst within 90 days of restarting the engine after completing a replacement of the catalyst for an engine. The permittee shall continue to monitor and record all operating parameters in accordance with the previously established compliance ranges until new ranges are established.</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)</p> <p>ADEM Admin Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p>

Federally Enforceable Provisos	Regulations
(iii) The permittee shall install, calibrate, properly maintain, and operate pressure gages in the inlet and outlet ducts of each catalytic converter to measure the pressure differential across the catalyst. 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 and necessary parts maintained for routine repairs.	ADEM Admin. Code r. 335-3-11-.06(103)
(iv) For each engine, the permittee shall monitor and record the pressure differential across the catalyst at least once during any calendar month that the engine is operated. The permittee shall conduct the required monitoring at least once every 31 operating days. No monitoring shall be required during any calendar month that an engine is not operated.	ADEM Admin. Code r. 335-3-11-.06(103)
(v) The permittee shall install, calibrate, properly maintain, and operate a thermocouple in the inlet duct of each catalytic converter to measure the inlet temperature of the catalyst. 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 and necessary parts maintained for routine repairs.	ADEM Admin. Code r. 335-3-11-.06(103)
(vi) The permittee shall install, calibrate, properly maintain, and operate a continuous parameter monitoring system (CPMS) to continuously monitor the catalyst inlet temperature of each engine. 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 and necessary parts maintained for routine repairs.	ADEM Admin. Code r. 335-3-11-.06(103)
(vii) While each engine is in operation, the permittee shall continuously monitor and record the inlet temperature of the catalyst at least once every 15 minutes (four readings per hour). The permittee shall reduce the data to 4-hour rolling averages for each engine.	ADEM Admin. Code r. 335-3-11-.06(103)
(viii) The permittee shall operate and maintain each engine, including air pollution control and monitoring equipment, according to the provisions in 40 CFR §63.6(e)(1) at all times.	ADEM Admin. Code r. 335-3-11-.06(103)
(ix) The permittee shall certify semiannually that only natural gas was fired in these units.	ADEM Admin. Code r. 335-3-16-.05(c)

Federally Enforceable Provisos	Regulations
<p>(c) 40 CFR Part 60, Subpart JJJJ</p> <p>(i) The permittee shall conduct emission testing for each unit every 8,760 hours of operation or every three years, whichever comes first using the appropriate EPA Reference Method to demonstrate compliance with the applicable 40 CFR Part 60, Subpart JJJJ emission standards for NO_x, CO, and VOC.</p> <p>(ii) The permittee shall maintain a maintenance plan on file, records of all maintenance conducted on each engine, and to the extent practicable, maintain and operate each engine in a manner consistent with good air pollution control practices for minimizing emissions.</p>	<p>ADEM Admin. Code r. 335-3-10-.02(88)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p>
<p>5. <u>Recordkeeping and Reporting Requirements</u></p> <p>(a) The permittee shall submit a Semiannual Monitoring Report (SMR), as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (January 1 – June 30 and July 1 – December 31). The report shall include a statement addressing whether only natural gas was fired in these units and all emission monitoring was conducted as required during the reporting period. If all emission monitoring was not conducted, the report shall explain the reason(s) why it was not performed. The report shall also include a statement addressing whether these units were operated for production purposes during each respective reporting period.</p> <p>(b) 40 CFR Part 63, Subpart ZZZZ</p> <p>(i) The permittee shall maintain the following records and all applicable records specified in 40 CFR §63.6655. These records include, but may not be limited to:</p> <p>A. A copy of each notification and report submitted to comply with 40 CFR Part 63, Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status;</p> <p>B. Records of each startup, shutdown, and malfunction in accordance with 40 CFR §63.6(e)(3)(iii) through (v);</p> <p>C. All results of performance tests and CPMS performance evaluations;</p> <p>D. Records of each period the CPMS is malfunctioning or inoperative (including out-of-control periods);</p> <p>E. All CPMS calibration checks;</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c) and ADEM Admin. Code r. 335-3-11-.06(103)</p>

Federally Enforceable Provisos	Regulations
<p>F. All monitoring data collected for the catalyst inlet temperature, including the date and time of each measurement;</p> <p>G. All 4 hour rolling averages calculated from the catalyst inlet temperature monitoring data, including the date and time period represented by the average;</p> <p>H. All monitoring data collected for the pressure drop across the catalyst, including the date and time of each measurement and the parameter range that was applicable at the time the monitoring was performed; and</p> <p>I. The date(s), time, nature, and results of any corrective action taken when an exceedance of an operating limitation occurred.</p> <p>(ii) The permittee shall keep each required record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee shall keep each record readily accessible in hard copy or electronic form on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee may keep the records off site for the remaining 3 years.</p> <p>(iii) The permittee shall submit the following notifications and all applicable notifications specified in 40 CFR §63.6645. These notifications include, but may not be limited to:</p> <p>A. The permittee shall submit a written notification of the intent to replace a catalyst to the Air Division at least 30 days prior to taking any action. The permittee shall submit a written notification to the Air Division that the replacement has been completed within 15 days of completing the action.</p> <p>B. The permittee shall submit a written notification of the intent to conduct a performance test to the Air Division at least 60 days prior to conducting a performance test. The notification shall include a copy of the site-specific test plan required by 40 CFR §63.7(c)(2).</p> <p>C. The permittee shall submit a written notification of the intent to conduct a performance evaluation of the continuous monitoring system to the Air Division at least 60 days prior to conducting a performance evaluation. The notification shall include a copy of the site-specific performance evaluation test plan required by 40 CFR §63.8(e)(3).</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c) and ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335 3 16 .05(c) and ADEM Admin. Code r. 335-3-11-.06(103)</p>

Federally Enforceable Provisos	Regulations
<p>(iv) The permittee shall submit the following reports and all applicable reports specified in 40 CFR §63.6650 and Table 7 to Subpart ZZZZ. These reports include, but may not be limited to:</p> <p>A. The permittee shall submit a report of the results of all performance tests conducted to the Air Division within 60 days of completing the test. The report shall also contain the pressure differential data collected during testing and the calculation of the new operating limitations for the pressure drop across the catalyst.</p> <p>B. The permittee shall submit a Semiannual Compliance Report (SCR) which contains the information in 40 CFR §63.6650(c) through (f), as applicable. The report shall be submitted no later than 60 days after the end of each semiannual reporting period (January 1 – June 30 and July 1 – December 31).</p>	<p>ADEM Admin. Code r. 335 3 16 .05(c) and ADEM Admin. Code r. 335-3-11-.06(103)</p>
<p>(c) 40 CFR Part 60, Subpart JJJJ</p>	
<p>(i) The permittee shall keep the following records for each engine in accordance with 40 CFR §60.4245. At a minimum, these records shall include:</p> <p>A. A copy of all notifications submitted to comply with 40 CFR Part 60, Subpart JJJJ and all documentation supporting any notification;</p> <p>B. The dates and nature of maintenance performed.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c) and ADEM Admin. Code r. 335-3-10-.02(88)</p>
<p>(ii) The permittee shall keep each required record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee shall keep each record readily accessible in hard copy or electronic form on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee may keep the records off site for the remaining 3 years.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>
<p>(iii) As required by 40 CFR Part 60, Subpart JJJJ, the permittee shall submit a written notification of the intent to conduct a performance test to the Air Division at least 30 days prior to conducting a performance test. The notification shall include a copy of the site-specific test plan required by 40 CFR §60.8(d).</p>	<p>ADEM Admin. Code r. 335-3-10-.02(88)</p>
<p>(iv) As required by 40 CFR §60.4245, the permittee shall submit the results of all emission tests conducted to the Air Division within 60 days of the actual completion of the test unless the Air Division specifically approves an extension of time.</p>	<p>ADEM Admin. Code r. 335-3-10-.02(88)</p>

Emission Unit No. 003 (Mainline Unit No. 3)**Summary Page**

Description: 8,180 hp Caterpillar G16CM34 TALE, 4-stroke, Lean-burn Natural Gas-fired Reciprocating Engine with an Oxidation Catalyst (MLU 3)

Permitted Operating Schedule: $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{365 \text{ Days}}{\text{Year}} = \frac{8760 \text{ Hours}}{\text{Year}}$

Emission Limitations:

Emission Point Nos.	Description	Pollutant	Emission Limit	Regulation
003	8,180 hp Caterpillar G16CM34 TALE, 4-stroke, Lean-burn Natural Gas-fired Reciprocating Engine with an Oxidation Catalyst	NO _x	11.72 lb/hr	ADEM Admin. Code r. 335-3-14-.04
			2.0 g/hp-hr OR 160 ppmvd at 15% O ₂	ADEM Admin. Code r. 335-3-10-.02(88) 40 CFR Part 60, Subpart JJJJ (NSPS)
		CO	3.79 lb/hr	ADEM Admin. Code r. 335-3-14-.04
			4.0 g/hp-hr OR 540 ppmvd at 15% O ₂	ADEM Admin. Code r. 335-3-10-.02(88) 40 CFR Part 60, Subpart JJJJ (NSPS)
			≥ 93% Reduction	ADEM Admin. Code r. 335-3-11-.06(103) 40 CFR Part 63, Subpart ZZZZ (NESHAP)
		VOC	10.82 lb/hr	ADEM Admin. Code r. 335-3-14-.04
			1.0 g/hp-hr OR 86 ppmvd at 15% O ₂	ADEM Admin. Code r. 335-3-10-.02(88) 40 CFR Part 60, Subpart JJJJ (NSPS)

Emission Unit No. 003 (Mainline Unit No. 3)**Unit Specific Provisos**

Federally Enforceable Provisos	Regulations
1. <u>Applicability</u>	
(a) This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-16-.03
(b) This unit is subject to the applicable provisions of 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, and 40 CFR Part 63, Subpart A as specified in Table 8 to Subpart ZZZZ.	ADEM Admin. Code r. 335-3-11-.06(103)
(c) This unit is subject to the applicable provisions of 40 CFR Part 60, Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, and 40 CFR Part 60, Subpart A as specified in Table 3 to Subpart JJJJ.	ADEM Admin. Code r. 335-3-10-.02(88)
(d) This unit is subject to a synthetic minor source emission limit to restrict its potential to emit below the applicability threshold established at ADEM Admin. Code r. 335-3-14-.04, Air Permits Authorizing Construction in Clean Areas [Prevention of Significant Deterioration (PSD)].	ADEM Admin. Code r. 335-3-14-.04
2. <u>Emission Standards</u>	
(a) The permittee shall not discharge more than one six-minute average opacity greater than 20% in any 60-minute period from this unit. At no time shall the permittee discharge a six-minute average opacity of particulate emissions greater than 40% from this unit.	ADEM Admin. Code r. 335-3-4-.01(1)
(b) <i>PSD – Synthetic Minor Source Requirements</i>	
(i) The permittee shall not cause or allow emissions of nitrogen oxides (NO _x) from this unit in excess of 11.72 lb/hr.	ADEM Admin. Code r. 335-3-14-.04
(ii) The permittee shall not cause or allow emissions of carbon monoxide (CO) from this unit in excess of 3.79 lb/hr.	ADEM Admin. Code r. 335-3-14-.04
(iii) The permittee shall not cause or allow emissions of volatile organic compounds (VOC) from this unit in excess of 10.82 lb/hr.	ADEM Admin. Code r. 335-3-14-.04
(c) <i>40 CFR Part 63, Subpart ZZZZ</i>	
(i) <i>Emission Limitation.</i> In accordance with 40 CFR §63.6600(b) and Table 2a to Subpart ZZZZ, the permittee shall reduce carbon monoxide (CO) emissions from this unit by 93% or more by the use of an oxidation catalyst.	ADEM Admin. Code r. 335-3-11-.06(103)

Federally Enforceable Provisos	Regulations
<p>(ii) <i>Operating Limitations.</i> In accordance with 40 CFR §63.6600(b) and Table 2b to Subpart ZZZZ, the permittee shall:</p> <p>A. Maintain the catalyst so that the pressure drop across the catalyst does not change by more than two inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the most recent performance test that demonstrated compliance; and</p> <p>B. Maintain the temperature of the unit's exhaust so that the catalyst inlet temperature is $\geq 450^{\circ}\text{F}$ and $\leq 1350^{\circ}\text{F}$.</p> <p>(iii) The permittee shall comply with the applicable emission limitations and operating limitations at all times, except during periods of startup, shutdown, and malfunction.</p> <p>(iv) The permittee shall operate and maintain this unit, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p>
<p>(d) 40 CFR Part 60, Subpart JJJJ</p> <p>(i) The permittee shall not cause or allow emission of nitrogen oxides (NO_x) from this unit in excess of 2.0 g/hp-hr or 160 ppmvd at 15% O_2.</p> <p>(ii) The permittee shall not cause or allow emissions of carbon monoxide (CO) from this unit in excess of 4.0 g/hp-hr or 540 ppmvd at 15% O_2.</p> <p>(iii) The permittee shall not cause or allow emissions of volatile organic compounds (VOC) from this unit in excess of 1.0 g/hp-hr or 86 ppmvd at 15% O_2.</p>	<p>ADEM Admin. Code r. 335-3-10-.02(88)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p>
<p>3. <u>Compliance and Performance Test Methods and Procedures</u></p> <p>(a) <i>PSD-Synthetic Minor Source Requirements</i></p> <p>(i) Compliance with the nitrogen oxides (NO_x) emission rate applicable to this unit shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Method 7E in Appendix A of 40 CFR Part 60.</p> <p>(ii) Compliance with the carbon monoxide (CO) emission rate applicable to this unit shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Method 10 in Appendix A of 40 CFR Part 60.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-1-.05</p>

Federally Enforceable Provisos	Regulations
<p>(iii) Compliance with the volatile organic compound (VOC) emission rate applicable to this unit shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Methods 25A and/or 18 in Appendix A of 40 CFR Part 60.</p> <p>(b) 40 CFR Part 63, Subpart ZZZZ</p> <p>(i) Performance tests to determine compliance with the carbon monoxide (CO) emission limitation applicable to this unit shall be conducted in accordance with the procedures and methods specified in 40 CFR §63.6620 and Table 4 to Subpart ZZZZ.</p> <p>(ii) If testing is required, opacity shall be determined by 40 CFR Part 60, Appendix A, Reference Method 9.</p> <p>(iii) During each run of any performance testing conducted, the permittee shall monitor and record the pressure differential across the catalyst (inches of water column) at the beginning and end of the test run and at least once every 10 minutes during the test run. The average pressure differentials for each test run that indicated compliance shall be averaged to determine the overall average pressure differential for the testing event. Using the overall average pressure differential for the testing event, the pressure differential range that demonstrates compliance shall be established according to the following equation:</p> $P_{LOW} = P_T - 2$ $P_{HIGH} = P_T + 2$ <p>Where:</p> <p>P_{HIGH} = Highest pressure differential across the catalyst that demonstrates compliance</p> <p>P_{LOW} = Lowest pressure differential across the catalyst that demonstrates compliance</p> <p>P_T = Average pressure differential across the catalyst for the testing event</p> <p>(c) 40 CFR Part 60, Subpart JJJJ</p> <p>(i) Performance tests to determine compliance with the nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compound (VOC) emission limitations applicable to this unit shall be conducted in accordance with the procedures and methods specified in 40 CFR §60.4244 and Table 2 to Subpart JJJJ.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p>

Federally Enforceable Provisos	Regulations
<p>4. <u>Emission Monitoring</u></p> <p>(a) <i>PSD-Synthetic Minor Source Requirements</i></p> <p>(i) Emission testing shall be conducted concurrently with the required performance testing of 40 CFR Part 60, Subpart JJJJ and 40 CFR Part 63, Subpart ZZZZ to determine compliance with the applicable PSD synthetic minor source emission standards for NO_x, CO, and VOC. The first emission testing conducted following the effective date of this permit shall be conducted in accordance with an approved EPA Reference Method for that pollutant. All subsequent emission testing during the permit term may be conducted using either an approved EPA Reference Method for that pollutant or an alternate method approved in advance by the Air Division. Should a unit not run for the purposes of production during the required testing period, no periodic monitoring will be required.</p> <p>(ii) The permittee shall only fire natural gas in this unit.</p> <p>(b) <i>40 CFR Part 63, Subpart ZZZZ</i></p> <p>(i) The permittee shall conduct performance testing annually (no more than 12 months elapsing between tests) to determine compliance with the applicable 40 CFR Part 63, Subpart ZZZZ emission standard for CO and reestablish the operating limitation for the pressure drop across the catalyst. If the results of any performance test indicate an engine is not in compliance with the applicable emission limitation or the permittee deviates from an operating limitation, the permittee shall conduct semiannual (no more than 6 months elapsing between tests) performance tests for that engine until the permittee has demonstrated compliance for two consecutive performance tests. For an engine that is taken out of service 30 days or more prior to the date the next performance test is due, the permittee shall conduct the performance test within 60 days of restarting the engine.</p> <p>(ii) The permittee shall conduct a performance test and reestablish the operating limitation for the pressure drop across the catalyst within 90 days of restarting the engine after completing a replacement of the catalyst for an engine. The permittee shall continue to monitor and record all operating parameters in accordance with the previously established compliance ranges until new ranges are established.</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)</p> <p>ADEM Admin Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p>

Federally Enforceable Provisos	Regulations
<p>(iii) The permittee shall install, calibrate, properly maintain, and operate pressure gages in the inlet and outlet ducts of each catalytic converter to measure the pressure differential across the catalyst. 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 and necessary parts maintained for routine repairs.</p> <p>(iv) The permittee shall monitor and record the pressure differential across the catalyst at least once during any calendar month that the engine is operated. The permittee shall conduct the required monitoring at least once every 31 operating days. No monitoring shall be required during any calendar month that an engine is not operated.</p> <p>(v) The permittee shall install, calibrate, properly maintain, and operate a thermocouple in the inlet duct of each catalytic converter to measure the inlet temperature of the catalyst. 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 and necessary parts maintained for routine repairs.</p> <p>(vi) The permittee shall install, calibrate, properly maintain, and operate a continuous parameter monitoring system (CPMS) to continuously monitor the catalyst inlet temperature of this engine. 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 and necessary parts maintained for routine repairs.</p> <p>(vii) While this engine is in operation, the permittee shall continuously monitor and record the inlet temperature of the catalyst at least once every 15 minutes (four readings per hour). The permittee shall reduce the data to 4-hour rolling averages for this engine.</p> <p>(viii) The permittee shall operate and maintain this engine, including air pollution control and monitoring equipment, according to the provisions in 40 CFR §63.6(e)(1) at all times.</p> <p>(ix) The permittee shall certify semiannually that only natural gas was fired in this unit.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p>

Federally Enforceable Provisos	Regulations
<p>(c) 40 CFR Part 60, Subpart JJJJ</p> <p>(i) The permittee shall conduct emission testing for this unit every 8,760 hours of operation or every three years, whichever comes first using the appropriate EPA Reference Method to demonstrate compliance with the applicable 40 CFR Part 60, Subpart JJJJ emission standards for NO_x, CO, and VOC.</p> <p>(ii) The permittee shall maintain a maintenance plan on file, records of all maintenance conducted on this engine, and to the extent practicable, maintain and operate this engine in a manner consistent with good air pollution control practices for minimizing emissions.</p>	<p>ADEM Admin. Code r. 335-3-10-.02(88)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p>
<p>5. <u>Recordkeeping and Reporting Requirements</u></p> <p>(a) The permittee shall submit a Semiannual Monitoring Report (SMR), as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (January 1 – June 30 and July 1 – December 31). The report shall include a statement addressing whether only natural gas was fired in this unit and all emission monitoring was conducted as required during the reporting period. If all emission monitoring was not conducted, the report shall explain the reason(s) why it was not performed. The report shall also include a statement addressing whether this unit was operated for production purposes during each respective reporting period.</p> <p>(b) 40 CFR Part 63, Subpart ZZZZ</p> <p>(i) The permittee shall maintain the following records and all applicable records specified in 40 CFR §63.6655. These records include, but may not be limited to:</p> <p>A. A copy of each notification and report submitted to comply with 40 CFR Part 63, Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status;</p> <p>B. Records of each startup, shutdown, and malfunction in accordance with 40 CFR §63.6(e)(3)(iii) through (v);</p> <p>C. All results of performance tests and CPMS performance evaluations;</p> <p>D. Records of each period the CPMS is malfunctioning or inoperative (including out-of-control periods);</p> <p>E. All CPMS calibration checks;</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c) and ADEM Admin. Code r. 335-3-11-.06(103)</p>

Federally Enforceable Provisos	Regulations
<p>F. All monitoring data collected for the catalyst inlet temperature, including the date and time of each measurement;</p> <p>G. All 4 hour rolling averages calculated from the catalyst inlet temperature monitoring data, including the date and time period represented by the average;</p> <p>H. All monitoring data collected for the pressure drop across the catalyst, including the date and time of each measurement and the parameter range that was applicable at the time the monitoring was performed; and</p> <p>I. The date(s), time, nature, and results of any corrective action taken when an exceedance of an operating limitation occurred.</p> <p>(ii) The permittee shall keep each required record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee shall keep each record readily accessible in hard copy or electronic form on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee may keep the records off site for the remaining 3 years.</p> <p>(iii) The permittee shall submit the following notifications and all applicable notifications specified in 40 CFR §63.6645. These notifications include, but may not be limited to:</p> <p>A. The permittee shall submit a written notification of the intent to replace a catalyst to the Air Division at least 30 days prior to taking any action. The permittee shall submit a written notification to the Air Division that the replacement has been completed within 15 days of completing the action.</p> <p>B. The permittee shall submit a written notification of the intent to conduct a performance test to the Air Division at least 60 days prior to conducting a performance test. The notification shall include a copy of the site-specific test plan required by 40 CFR §63.7(c)(2).</p> <p>C. The permittee shall submit a written notification of the intent to conduct a performance evaluation of the continuous monitoring system to the Air Division at least 60 days prior to conducting a performance evaluation. The notification shall include a copy of the site-specific performance evaluation test plan required by 40 CFR §63.8(e)(3).</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c) and ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335 3 16 .05(c) and ADEM Admin. Code r. 335-3-11-.06(103)</p>

Federally Enforceable Provisos	Regulations
<p>(iv) The permittee shall submit the following reports and all applicable reports specified in 40 CFR §63.6650 and Table 7 to Subpart ZZZZ. These reports include, but may not be limited to:</p> <p>A. The permittee shall submit a report of the results of all performance tests conducted to the Air Division within 60 days of completing the test. The report shall also contain the pressure differential data collected during testing and the calculation of the new operating limitations for the pressure drop across the catalyst.</p> <p>B. The permittee shall submit a Semiannual Compliance Report (SCR) which contains the information in 40 CFR §63.6650(c) through (f), as applicable. The report shall be submitted no later than 60 days after the end of each semiannual reporting period (January 1 – June 30 and July 1 – December 31).</p>	<p>ADEM Admin. Code r. 335 3 16 .05(c) and ADEM Admin. Code r. 335-3-11-.06(103)</p>
<p>(c) 40 CFR Part 60, Subpart JJJJ</p>	
<p>(i) The permittee shall keep the following records for this engine in accordance with 40 CFR §60.4245. At a minimum, these records shall include:</p> <p>A. A copy of all notifications submitted to comply with 40 CFR Part 60, Subpart JJJJ and all documentation supporting any notification;</p> <p>B. The dates and nature of maintenance performed.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c) and ADEM Admin. Code r. 335-3-10-.02(88)</p>
<p>(ii) The permittee shall keep each required record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee shall keep each record readily accessible in hard copy or electronic form on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee may keep the records off site for the remaining 3 years.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>
<p>(iii) As required by 40 CFR Part 60, Subpart JJJJ, the permittee shall submit a written notification of the intent to conduct a performance test to the Air Division at least 30 days prior to conducting a performance test. The notification shall include a copy of the site-specific test plan required by 40 CFR §60.8(d).</p>	<p>ADEM Admin. Code r. 335-3-10-.02(88)</p>
<p>(iv) As required by 40 CFR §60.4245, the permittee shall submit the results of all emission tests conducted to the Air Division within 60 days of the actual completion of the test unless the Air Division specifically approves an extension of time.</p>	<p>ADEM Admin. Code r. 335-3-10-.02(88)</p>

Emission Unit Nos. 004 and 005 (Emergency Unit Nos. 1 and 2)**Summary Page**

Description: Two (2) 800 hp Dresser-Waukesha L36GL, 4-stroke, Lean-burn Natural Gas-fired Reciprocating Engines for Emergency Power (EMRG 1 and 2)

Permitted Operating Schedule: 500 Hrs/Yr

Emission Limitations:

Emission Point Nos.	Description	Pollutant	Emission Limit	Regulation
004 - 005	Two (2) 800 hp Dresser-Waukesha L36GL, 4-stroke, Lean-burn Natural Gas-fired Reciprocating Engines for Emergency Power	NO _x	3.53 lb/hr	ADEM Admin. Code r. 335-3-14-.04
			2.0 g/hp-hr OR 160 ppmvd at 15% O ₂	ADEM Admin. Code r. 335-3-10-.02(88) 40 CFR Part 60, Subpart JJJJ (NSPS)
		CO	5.29 lb/hr	ADEM Admin. Code r. 335-3-14-.04
			4.0 g/hp-hr OR 540 ppmvd at 15% O ₂	ADEM Admin. Code r. 335-3-10-.02(88) 40 CFR Part 60, Subpart JJJJ (NSPS)
		VOC	1.76 lb/hr	ADEM Admin. Code r. 335-3-14-.04
			1.0 g/hp-hr OR 86 ppmvd at 15% O ₂	ADEM Admin. Code r. 335-3-10-.02(88) 40 CFR Part 60, Subpart JJJJ (NSPS)

Emission Unit Nos. 004 and 005 (Emergency Unit Nos. 1 and 2)

Unit Specific Provisos

Federally Enforceable Provisos	Regulations
<p>1. <u>Applicability</u></p> <p>(a) These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “Major Source Operating Permits.”</p> <p>(b) These units are subject to the applicable provisions of 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, and 40 CFR Part 63, Subpart A as specified in Table 8 to Subpart ZZZZ.</p> <p>(c) These units are subject to the applicable provisions of 40 CFR Part 60, Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, and 40 CFR Part 60, Subpart A as specified in Table 3 to Subpart JJJJ.</p> <p>(d) These units are subject to a synthetic minor source emission limit to restrict their potential to emit below the applicability threshold established at ADEM Admin. Code r. 335-3-14-.04, Air Permits Authorizing Construction in Clean Areas [Prevention of Significant Deterioration (PSD)].</p> <p>2. <u>Emission Standards</u></p> <p>(a) The permittee shall not discharge more than one six-minute average opacity greater than 20% in any 60-minute period from either of these units. At no time shall the permittee discharge a six-minute average opacity of particulate emissions greater than 40% from either of these units.</p> <p>(b) <i>PSD – Synthetic Minor Source Requirements</i></p> <p>(i) The permittee shall not cause or allow emissions of nitrogen oxides (NO_x) from each unit in excess of 3.53 lb/hr.</p> <p>(ii) The permittee shall not cause or allow emissions of carbon monoxide (CO) from each unit in excess of 5.29 lb/hr.</p> <p>(iii) The permittee shall not cause or allow emissions of volatile organic compounds (VOC) from each unit in excess of 1.76 lb/hr.</p> <p>(iv) The permittee shall not operate these units in excess of 500 hours during any consecutive 12-month period, each.</p>	<p>ADEM Admin. Code r. 335-3-16-.03</p> <p>ADEM Admin. Code r. 335-3-11-.06(103)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-4-.01(1)</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>

Federally Enforceable Provisos	Regulations
<p>(c) 40 CFR Part 60, Subpart JJJJ</p> <p>(i) The permittee shall not cause or allow emission of nitrogen oxides (NO_x) from each unit in excess of 2.0 g/hp-hr or 160 ppmvd at 15% O₂.</p> <p>(ii) The permittee shall not cause or allow emissions of carbon monoxide (CO) from each unit in excess of 4.0 g/hp-hr or 540 ppmvd at 15% O₂.</p> <p>(iii) The permittee shall not cause or allow emissions of volatile organic compounds (VOC) from each unit in excess of 1.0 g/hp-hr or 86 ppmvd at 15% O₂.</p>	<p>ADEM Admin. Code r. 335-3-10-.02(88)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p>
<p>3. <u>Compliance and Performance Test Methods and Procedures</u></p>	
<p>(a) PSD-Synthetic Minor Source Requirements</p> <p>(i) Compliance with the nitrogen oxides (NO_x) emission rate applicable to each of these units shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Method 7E in Appendix A of 40 CFR Part 60.</p> <p>(ii) Compliance with the carbon monoxide (CO) emission rate applicable to each of these units shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Method 10 in Appendix A of 40 CFR Part 60.</p> <p>(iii) Compliance with the volatile organic compound (VOC) emission rate applicable to each of these units shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Methods 25A and/or 18 in Appendix A of 40 CFR Part 60.</p> <p>(iv) If testing is required, opacity shall be determined by 40 CFR Part 60, Appendix A, Reference Method 9.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-1-.05</p>
<p>(b) 40 CFR Part 60, Subpart JJJJ</p> <p>(i) Performance tests to determine compliance with the nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compound (VOC) emission limitations applicable to each of these units shall be conducted in accordance with the procedures and methods specified in 40 CFR §60.4244 and Table 2 to Subpart JJJJ.</p>	<p>ADEM Admin. Code r. 335-3-10-.02(88)</p>

Federally Enforceable Provisos	Regulations
<p>4. <u>Emission Monitoring</u></p> <p>(a) <i>PSD-Synthetic Minor Source Requirements</i></p> <p>(i) Emission testing shall be conducted concurrently with the required performance testing of 40 CFR Part 60, Subpart JJJJ to determine compliance with the applicable PSD synthetic minor source emission standards for NO_x, CO, and VOC. The first emission testing conducted following the effective date of this permit shall be conducted in accordance with an approved EPA Reference Method for that pollutant. All subsequent emission testing during the permit term may be conducted using either an approved EPA Reference Method for that pollutant or an alternate method approved in advance by the Air Division. Should a unit not run for the purposes of production during the required testing period, no periodic monitoring will be required.</p> <p>(ii) The permittee shall only fire natural gas in these units.</p> <p>(iii) Within 15 days of the end of each calendar month, the permittee shall calculate the number of hours of operation of each unit for the previous month and the previous 12-month period.</p> <p>(b) <i>40 CFR Part 60, Subpart JJJJ</i></p> <p>(i) The permittee shall conduct emission testing for each unit every 8,760 hours of operation or every three years, whichever comes first using the appropriate EPA Reference Method to demonstrate compliance with the applicable 40 CFR Part 60, Subpart JJJJ emission standards for NO_x, CO, and VOC.</p> <p>(ii) The permittee shall maintain a maintenance plan on file, records of all maintenance conducted on each engine, and to the extent practicable, maintain and operate each engine in a manner consistent with good air pollution control practices for minimizing emissions.</p> <p>(iii) The permittee shall not operate these engines except as provided in 40 CFR §60.4243(d), which include, but may not be limited to:</p> <p>A. Emergency situations;</p> <p>B. A total of 100 hours per year or less for the purposes allowed by 40 CFR §60.4243(d), which include maintenance checks and readiness testing, emergency demand response, and periods where deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency; and</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)</p> <p>ADEM Admin Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p>

Federally Enforceable Provisos	Regulations
<p>C. A total of 50 hours per year or less for the non-emergency situations allowed by 40 CFR §60.4243(d); however, those 50 hours are counted towards the 100 hours per year allowed for maintenance checks and readiness testing, emergency demand response, and voltage or frequency deviations of 5 percent or greater.</p> <p>(iv) These units are limited to the use of natural gas only as a fuel to fire the engines. However, the permittee may operate the engines using propane for a maximum of 100 hours per year and an alternate fuel solely during emergency operations, but must keep records of such use.</p> <p>(v) The permittee shall install a non-resettable hour meter on each of these units if one is not already installed.</p>	<p>ADEM Admin. Code r. 335 3 16 .05(c) and ADEM Admin. Code r. 335-3-10-.02(88)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p>
<p>5. <u>Recordkeeping and Reporting Requirements</u></p> <p>(a) The permittee shall submit a Semiannual Monitoring Report (SMR), as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (January 1 – June 30 and July 1 – December 31). The report shall include a statement addressing whether only natural gas was fired in these units and all emission monitoring was conducted as required during the reporting period. If all emission monitoring was not conducted, the report shall explain the reason(s) why it was not performed.</p> <p>(b) <i>PSD-Synthetic Minor Source Requirements</i></p> <p>(i) The permittee shall maintain records of hours of operation on a monthly and 12-month rolling total basis.</p> <p>(c) <i>40 CFR Part 60, Subpart JJJJ</i></p> <p>(i) The permittee shall keep the following records for each engine in accordance with 40 CFR §60.4245. At a minimum, these records shall include:</p> <p>A. A copy of all notifications submitted to comply with 40 CFR Part 60, Subpart JJJJ and all documentation supporting any notification;</p> <p>B. For each period of operation, the permittee shall record the date and length of operation and the reason the engines were in operation during that time. For periods of operation designated as “emergency operation,” the records shall reflect what classified the operation as emergency. The permittee shall subtotal the total number of hours the engines were operated during a calendar year by the reason the engines were in operation;</p> <p>C. The dates and nature of maintenance performed.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-16-.05(c) and ADEM Admin. Code r. 335-3-10-.02(88)</p>

Federally Enforceable Provisos	Regulations
<p>(ii) The permittee shall keep each required record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee shall keep each record readily accessible in hard copy or electronic form on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee may keep the records off site for the remaining 3 years.</p> <p>(iii) As required by 40 CFR Part 60, Subpart JJJJ, the permittee shall submit a written notification of the intent to conduct a performance test to the Air Division at least 30 days prior to conducting a performance test. The notification shall include a copy of the site-specific test plan required by 40 CFR §60.8(d).</p> <p>(iv) As required by 40 CFR §60.4245, the permittee shall submit the results of all emission tests conducted to the Air Division within 60 days of the actual completion of the test unless the Air Division specifically approves an extension of time.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p> <p>ADEM Admin. Code r. 335-3-10-.02(88)</p>

Emission Unit No. 006 (Mainline Unit No. 4)**Summary Page**

Description: 20,696 hp Solar Titan 130-20502S, Natural Gas-fired Combustion Turbine with SoLoNOx Technology (MLU 4)

Permitted Operating Schedule: $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{365 \text{ Days}}{\text{Year}} = \frac{8760 \text{ Hours}}{\text{Year}}$

Emission Limitations:

Emission Point No.	Description	Pollutant	Emission Limit	Regulation
006	20,696 hp Solar Titan 130-20502S Natural Gas-fired Combustion Turbine w/SoLoNOx Technology	NO _x	25 ppmvd at 15% O ₂ OR 150 ng/J of useful output (1.2 lb/MWh)	ADEM Admin. Code r. 335-3-10-.02(89) 40 CFR Part 60, Subpart KKKK (NSPS)
		CO	N/A	N/A
		VOC	N/A	N/A
		SO ₂	110 ng SO ₂ /J (0.90 lb/MWh) gross output OR Fuel Sulfur Content < 20 grains per 100 standard cubic feet	ADEM Admin Code r. 335-3-10-.02(89) 40 CFR Part 60, Subpart KKKK (NSPS)
		PM	N/A	N/A
		Formaldehyde (CH ₂ O)	91 ppbvd at 15% O ₂	ADEM Admin Code r. 335-3-11-.06(102) 40 CFR Part 63, Subpart YYYY (NESHAP)

Emission Unit No. 006 (Mainline Unit No. 4)

Unit Specific Provisos

Federally Enforceable Provisos	Regulations
<p>1. <u>Applicability</u></p> <p>(a) This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “Major Source Operating Permits.”</p> <p>(b) This unit is subject to the applicable requirements of 40 CFR Part 60, Subpart KKKK, the Standards of Performance for Stationary Combustion Turbines.</p> <p>(c) This unit is subject to the applicable requirements of 40 CFR Part 63, Subpart YYYY, the National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines.</p>	<p>ADEM Admin. Code r. 335-3-16-.03</p> <p>ADEM Admin. Code r. 335-3-10-.02(89)</p> <p>ADEM Admin. Code r. 335-3-11-.06(102)</p>
<p>2. <u>Emission Standards</u></p> <p>(a) The permittee shall not discharge more than one six-minute average opacity greater than 20% in any 60-minute period from this unit. At no time shall the permittee discharge a six-minute average opacity of particulate emissions greater than 40% from this unit.</p> <p>(b) 40 CFR Part 60, Subpart KKKK</p> <p>(i) This unit is subject to the applicable emission standards of 40 CFR §60.4320. The permittee shall not cause or allow emissions of nitrogen oxides (NO_x) from this unit in excess of 25 ppmvd at 15% O₂ or 150 ng/J of useful output (1.2 lb/MWh).</p> <p>(ii) This unit is subject to the applicable emission standards of 40 CFR §60.4330. The permittee shall not cause or allow emissions of sulfur dioxide (SO₂) from this unit in excess of 110 ng SO₂/J (0.90 lb/MWh) gross output OR, as an alternative, no fuel shall be burned in the unit that contains sulfur in excess of 20 grains per 100 standard cubic feet.</p> <p>(c) 40 CFR Part 63, Subpart YYYY</p> <p>(i) This unit is subject to the applicable emission standards of 40 CFR §63.6100 and Table 1 to Subpart YYYY. The permittee shall not cause or allow emissions of formaldehyde (CH₂O) from this unit in excess of 91 ppbvd at 15% O₂.</p>	<p>ADEM Admin. Code r. 335-3-4-.01(1)</p> <p>ADEM Admin. Code r. 335-3-10-.02(89)</p> <p>ADEM Admin. Code r. 335-3-10-.02(89)</p> <p>ADEM Admin Code r. 335-3-11-.06(102)</p>

Federally Enforceable Provisos	Regulations
<p>(ii) This unit is subject to the applicable operational limitations of 40 CFR §63.6100 and Table 2 to Subpart YYYY. The permittee shall maintain the operating limitations approved by the Administrator, which include continuously monitoring the gas producer turbine speed (% NGP) and the inlet ambient air temperature (T1) in order to confirm the turbine is operating in lean premixed (LPM) combustion mode.</p> <p>(iii) Per 40 CFR §63.6105(a), the permittee shall comply with the applicable emission limitations and operating limitations at all times, <u>including</u> during startup, shutdown, and malfunction.</p> <p>(iv) Per 40 CFR §63.6105(c), the permittee shall operate and maintain this unit, including air pollution control and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times, <u>including</u> during startup, shutdown, and malfunction.</p>	<p>ADEM Admin Code r. 335-3-11-.06(102)</p> <p>ADEM Admin Code r. 335-3-11-.06(102)</p> <p>ADEM Admin Code r. 335-3-11-.06(102)</p>
<p>3. <u>Compliance and Performance Test Methods and Procedures</u></p>	
<p>(a) <i>40 CFR Part 60, Subpart KKKK</i></p>	
<p>(i) Compliance with the nitrogen oxides (NO_x) emission rate applicable to this unit shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Method 7E in Appendix A of 40 CFR Part 60.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p>
<p>(ii) This unit is subject to the applicable testing and procedure requirements of 40 CFR §60.4365, which include determining the sulfur content of the fuel burned in the turbine in accordance with one of the methods described in 40 CFR §60.4365(a).</p>	<p>ADEM Admin. Code r. 335-3-10-.02(89)</p>
<p>(iii) If testing is required, opacity shall be determined by 40 CFR Part 60, Appendix A, Reference Method 9.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p>
<p>(b) <i>40 CFR Part 63, Subpart YYYY</i></p>	
<p>(i) Compliance with the formaldehyde (CH₂O) emission rate applicable to this unit shall be determined by EPA Reference Methods 1 and 3A and EPA Reference Method 320 in Appendix A of 40 CFR Part 63.</p>	<p>ADEM Admin Code r. 335-3-11-.06(102)</p>
<p>(ii) Per 40 CFR §63.6125(b), the permittee shall continuously monitor the operating parameters specified in the approved petition to the Administrator, in order to comply with the operating limitations in Table 2 and as specified in Table 5 of Subpart YYYY. These parameters are the gas producer turbine speed (% NGP) and the inlet ambient air temperature (T1).</p>	<p>ADEM Admin Code r. 335-3-11-.06(102)</p>

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<p>4. <u>Emission Monitoring</u></p> <p>(a) 40 CFR Part 60, Subpart KKKK</p> <p>(i) Emission testing shall be conducted annually to determine compliance with the applicable 40 CFR Part 60, Subpart KKKK emission standard for NO_x. Testing shall be conducted once per calendar year, with no more than fourteen (14) calendar months elapsing between tests. In accordance with 40 CFR §60.4340(a):</p> <p>A. If the NO_x emission results from the above referenced performance test are less than or equal to 75% of the NO_x emission limit, then the frequency of subsequent performance tests may be reduced to once every two (2) years, with no more than 26 calendar months following the previous performance test.</p> <p>B. If the results of any subsequent performance test exceed 75% of the NO_x emission limit, then annual performance testing must be resumed until the unit demonstrates compliance for two (2) consecutive testing events demonstrating emissions are less than or equal to 75% of the NO_x emission limit, at which time two (2) year testing may resume.</p> <p>(ii) The permittee shall perform subsequent emission testing once per calendar year to satisfy the Title V periodic monitoring requirement for the applicable 40 CFR Part 60, Subpart KKKK emission standard for NO_x. The subsequent annual emission testing may be conducted using either an approved EPA Reference Method or with a portable analyzer. Periodic monitoring may be conducted concurrently with the annual or biennial EPA Reference Method test that is required by 40 CFR Part 60, Subpart KKKK. No periodic monitoring will be required if the unit does not operate for production purposes during the annual testing period.</p> <p>(iii) The permittee shall only fire natural gas in this unit.</p> <p>(iv) This unit is subject to the applicable monitoring requirements of 40 CFR §60.4365, which include monitoring the total sulfur content of the fuel being fired in the unit. The permittee may demonstrate compliance with the applicable SO₂ emission standard by the use of the fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel which specifies that the total sulfur content is 20 grains of sulfur or less per 100 standard cubic feet.</p>	<p>ADEM Admin. Code r. 335 3 10 .02(89)</p> <p>ADEM Admin. Code r. 335 3 16 .05(c)</p> <p>ADEM Admin Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-10-.02(89)</p>

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<p>(b) 40 CFR Part 63, Subpart YYYY</p> <p>(i) This unit is subject to the applicable testing requirements of 40 CFR §63.6115. Emission testing shall be conducted annually to determine compliance with the applicable 40 CFR Part 63, Subpart YYYY emission standard for formaldehyde (CH₂O). Testing shall be conducted once per calendar year, with no more than fourteen (14) calendar months elapsing between tests.</p>	<p>ADEM Admin Code r. 335-3-11-.06(102)</p>
<p>5. <u>Recordkeeping and Reporting Requirements</u></p> <p>(a) The permittee shall submit a Semiannual Monitoring Report (SMR), as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (January 1 – June 30 and July 1 – December 31). The report shall include a statement addressing whether only natural gas was fired in this unit and all emission monitoring was conducted as required during the reporting period. If all emission monitoring was not conducted, the report shall explain the reason(s) why it was not performed.</p> <p>(b) 40 CFR Part 60, Subpart KKKK</p> <p>(i) The permittee shall maintain records of the most current fuel tariff sheet as required by 40 CFR §60.4365, on-site in a permanent form suitable for inspection for at least five (5) years (2 years on-site and 3 years off-site) from the date of generation of each record.</p> <p>(ii) As required by 40 CFR Part 60, Subpart KKKK, the permittee shall submit a written notification of the intent to conduct a performance test to the Air Division at least 30 days prior to conducting a performance test. The notification shall include a copy of the site-specific test plan required by 40 CFR §60.8(d).</p> <p>(iii) As required by 40 CFR §60.4375, the permittee shall submit the results of all emission tests conducted to the Air Division within 60 days of the actual completion of the test unless the Air Division specifically approves an extension of time.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c) and ADEM Admin. Code r. 335-3-10-.02(89)</p> <p>ADEM Admin. Code r. 335-3-10-.02(89)</p> <p>ADEM Admin. Code r. 335-3-10-.02(89)</p>
<p>(c) 40 CFR Part 63, Subpart YYYY</p> <p>(i) The permittee shall maintain records as required by 40 CFR §63.6160, on-site in a permanent form suitable for inspection for at least five (5) years (2 years on-site and 3 years off-site) from the date of generation of each record.</p> <p>(ii) As required by 40 CFR §63.6150(f), the permittee shall submit the results of all emission tests conducted to the Air Division within 60 days of the actual completion of the test unless the Air Division specifically approves an extension of time.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c) and ADEM Admin. Code r. 335-3-11-.06(102)</p> <p>ADEM Admin Code r. 335-3-11-.06(102)</p>

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<p>(iii)The permittee shall perform the required notifications, recordkeeping, and reporting requirements in accordance with 40 CFR §63.6145, 40 CFR §63.6150, 40 CFR §63.6155, and 40 CFR §63.6160 which include, but may not be limited to:</p> <p>A. The permittee shall submit a Semiannual Compliance Report (SCR) which contains the information in 40 CFR §63.6150(a)(1) through (5), as applicable. The report shall be submitted for the reporting periods of January 1 – June 30 and July 1 – December 31 by July 31 and January 31, respectively.</p> <p>B. The permittee shall submit a notification of intent to conduct a performance test at least 60 calendar days prior to the test in accordance with 40 CFR §63.6145(e) and 40 CFR §63.7(b)(1).</p> <p>C. The permittee shall submit a Notification of Compliance Status in accordance with 40 CFR §63.6145(f) and 40 CFR §63.9(h)(2)(ii) for each performance test required to demonstrate compliance with the emission limitation for formaldehyde (CH₂O), including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test.</p> <p>D. Recordkeeping requirements as specified in 40 CFR §63.6155.</p> <p>E. Recordkeeping format and length requirements as specified in 40 CFR §63.6160.</p>	<p>ADEM Admin Code r. 335-3-11-.06(102)</p>