

MAJOR SOURCE OPERATING PERMIT

PERMITTEE: BAY GAS STORAGE COMPANY, LLC

FACILITY NAME: BAY GAS STORAGE COMPANY, LLC

FACILITY/PERMIT NO.: 108-0017

LOCATION: MCINTOSH, WASHINGTON 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: DRAFT

Expiration Date: April 13, 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>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>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>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>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-.02(6)</p> <p>ADEM Admin. Code r. 335-3-16-.12(2)</p> <p>ADEM Admin. Code r. 335-3-16-.05(e)</p> <p>ADEM Admin. Code r. 335-3-16-.05(f)</p> <p>ADEM Admin. Code r. 335-3-16-.05(g)</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. <u>Compliance Provisions</u></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. <u>Compliance Certification</u></p> <p>The permittee shall submit a complete and accurate compliance certification by June 11th of each year for each reporting period of this permit (April 14th-April 13th).</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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13. Reopening for Cause

Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:

- (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 no 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.

ADEM Admin. Code r. 335-3-16-.13(5)

14. Additional Rules and Regulations

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.

§22-28-16(d), Code of Alabama 1975, as amended

15. Equipment Maintenance or Breakdown

- (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:
 - (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;

ADEM Admin. Code r. 335-3-1-.07(1),(2)

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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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| <p><u>21. Reporting Requirements</u></p> <p>(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).</p> <p>(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.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c)3.</p> |
| <p><u>22. Emission Testing Requirements</u></p> <p>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.</p> <p>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.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <p>(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.</p> <p>(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).</p> <p>(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.</p> <p>(d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</p> <p>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.</p> | <p>ADEM Admin. Code r. 335-3-1-.05(3) and 335-3-1-.04(1)</p> <p>ADEM Admin. Code r. 335-3-1-.04</p> <p>ADEM Admin. Code r. 335-3-1-.04</p> |

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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-.05</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>ADEM Admin. Code r. 335-3-16-.02(2)</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>ADEM Admin. Code r. 335-3-1-.10</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>ADEM Admin. Code r. 335-3-4-.01(1)</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>ADEM Admin. Code r. 335-3-4-.03</p> <p>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. 335-3-4-.04</p> |

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| Federally Enforceable Provisos | Regulations |
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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>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>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. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-3-.01</p> <p>ADEM Admin. Code r. 335-3-16-.10</p> |

Emission Unit Nos. 001 and 002 (Compressor Engine Nos. 1 & 2)

Summary Page

Description: Two (2) 2,000 hp Superior 12SGTB, 4-Stroke, Lean-Burn Natural Gas-fired Reciprocating Engines

Permitted Operating Schedule: $\frac{10,500 \text{ Hours}}{\text{Year}}$ } Combined
Limit

Emission Limitations:

| Emission Point Nos. | Description | Pollutant | Emission Limit | Regulation |
|---------------------|--|-----------------|---|--|
| 001 | 2,000 hp Superior 12SGTB, 4-stroke, Lean-burn Natural Gas-fired Reciprocating Engines (Compressor Engine No. 1)(C-100) | NO _x | N/A | N/A |
| | | CO | N/A | N/A |
| | | VOC | N/A | N/A |
| | | SO ₂ | N/A | N/A |
| | | PM | N/A | N/A |
| | | HAP | Combined Operating Limitation with Emission Unit No. 002: 10,500 hours during any consecutive 12-month period | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |
| 002 | 2,000 hp Superior 12SGTB, 4-stroke, Lean-burn Natural Gas-fired Reciprocating Engines (Compressor Engine No. 2)(C-101) | NO _x | N/A | N/A |
| | | CO | N/A | N/A |
| | | VOC | N/A | N/A |
| | | SO ₂ | N/A | N/A |
| | | PM | N/A | N/A |
| | | HAP | Combined Operating Limitation with Emission Unit No. 001: 10,500 hours during any consecutive 12-month period | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |

Emission Unit Nos. 001 and 002 (Compressor Engine Nos. 1 & 2)

Unit Specific Provisos

| Federally Enforceable Provisos | Regulations |
|---|--|
| 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 affected sources under 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. They are classified as “remote engines” as defined by 40 CFR §63.6675. | 40 CFR Part 63, Subpart ZZZZ |
| (c) These units are subject to a synthetic minor emission limitation to restrict the facility-wide emissions of hazardous air pollutants (HAP), as listed in ADEM Admin. Code 335-3, Appendix G, to below the applicable major source thresholds for HAP during any consecutive 12-month period. | ADEM Admin. Code r. 335-3-14-.03 |
| (d) These units are 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 fire these units with natural gas only. | ADEM Admin. Code r. 335-3-4-.01(1) |
| (b) The permittee shall not cause or allow these engines to operate in excess of a combined limit of 10,500 hours during any consecutive 12-month period. | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |
| (c) The permittee shall not cause or allow the facility-wide emissions of an individual HAP to equal or exceed 10 tons during any consecutive 12-month period or the facility-wide emissions of any combination of HAPs to equal or exceed 25 tons during any consecutive 12-month period. | ADEM Admin. Code r. 335-3-14-.03 |
| (d) 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) |

| Federally Enforceable Provisos | Regulations |
|--|---|
| <p>3. <u>Compliance and Performance Test Methods and Procedures</u></p> <p>(a) If testing is required, opacity of shall be determined by 40 CFR Part 60, Appendix A, Reference Method 9.</p> <p>(b) The permittee shall conduct an evaluation no later than October 19th of each year to determine if these engines meet the definition of remote stationary RICE as defined by 40 CFR §63.6675. If the evaluation indicates that the engines no longer meets the definition of remote stationary RICE, the permittee must comply with all of the requirements for existing non-emergency SI 4SLB RICE with a site rating of more than 500 hp located at an area source of HAP.</p> | <p>ADEM Admin. Code r. 335-3-1-.05</p> <p>40 CFR §63.6603(f)</p> |
| <p>4. <u>Emission Monitoring</u></p> <p>(a) The permittee shall change the oil and the filter every 2,160 hours of operation or within 1 year plus 30 days of the previous change, whichever comes first; or participate in the oil analysis program as allowed by 40 CFR §63.6625(j).</p> <p>(b) The permittee shall inspect each unit's spark plugs, and all hoses, and belts every 2,160 hours of operation or within 1 year plus 30 days of the previous inspection, whichever comes first, and replace as necessary.</p> <p>(c) The permittee shall certify semiannually that only natural gas was fired in these units.</p> <p>(d) 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>40 CFR §63.6603 and Table 2d(8) to Subpart ZZZZ</p> <p>40 CFR §63.6603 and Table 2d(8) to Subpart ZZZZ</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |
| <p>5. <u>Recordkeeping and Reporting Requirements</u></p> <p>(a) 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> <ul style="list-style-type: none"> (i) 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; (ii) Records of each startup, shutdown, and malfunction in accordance with 40 CFR §63.6(e)(3)(iii) through (v); (iii) Records of the maintenance and the required management practices shown in Table 2d to Subpart ZZZZ; | <p>ADEM Admin. Code r. 335-3-16-.05(c) and 40 CFR §63.6655;</p> |

| Federally Enforceable Provisos | Regulations |
|--|---|
| <p>(iv) The permittee shall maintain records of hours of operation on a monthly and 12-month rolling total basis, for each unit;</p> <p>(v) The permittee shall maintain on file the initial and annual evaluation of the status of these engines. If at any time these engines are no longer considered remote stationary RICE, the permittee should submit a copy of an Initial Notification to EPA Region 4 within 120 days of determining the engines' change in status.</p> <p>(b) 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>(c) The Permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (April 14th - October 13th and October 14th - April 13th). The report shall certify that only natural gas was fired in these units during the reporting period.</p> | <p>40 CFR §63.6603(f)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c) and 40 CFR §63.6660</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |

Emission Unit Nos. 003 and 004 (Compressor Engine Nos. 4 & 5)

Summary Page

Description: Two (2) 4,735 hp Caterpillar, G3616, 4-Stroke, Lean-Burn Natural Gas-fired Reciprocating Engines

Permitted Operating Schedule: $\frac{10,500 \text{ Hours}}{\text{Year}}$ } Combined Limit

Emission Limitations:

| Emission Point Nos. | Description | Pollutant | Emission Limit | Regulation |
|---------------------|--|-----------------|---|--|
| 003 | 4,735 hp Caterpillar, G3616, 4-stroke, Lean-burn Natural Gas-fired Reciprocating Engine (Compressor Engine No. 4)(C-201) | NO _x | N/A | N/A |
| | | CO | N/A | N/A |
| | | VOC | N/A | N/A |
| | | SO ₂ | N/A | N/A |
| | | PM | N/A | N/A |
| | | HAP | Combined Operating Limitation with Emission Unit No. 004: 10,500 hours during any consecutive 12-month period | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |
| 004 | 4,735 hp Caterpillar, G3616, 4-stroke, Lean-burn Natural Gas-fired Reciprocating Engine (Compressor Engine No. 5)(C-202) | NO _x | N/A | N/A |
| | | CO | N/A | N/A |
| | | VOC | N/A | N/A |
| | | SO ₂ | N/A | N/A |
| | | PM | N/A | N/A |
| | | HAP | Combined Operating Limitation with Emission Unit No. 003: 10,500 hours during any consecutive 12-month period | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |

Emission Unit Nos. 003 and 004 (Compressor Engine Nos. 4 & 5)

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 affected sources under 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. They are classified as “remote engines” as defined by 40 CFR §63.6675.</p> <p>(c) These units are subject to a synthetic minor emission limitation to restrict the facility-wide emissions of hazardous air pollutants (HAP), as listed in ADEM Admin. Code 335-3, Appendix G, to below the applicable major source thresholds for HAP during any consecutive 12-month period.</p> <p>(d) These units are 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)].</p> | <p>ADEM Admin. Code r. 335-3-16-.03</p> <p>40 CFR Part 63, Subpart ZZZZ</p> <p>ADEM Admin. Code r. 335-3-14-.03</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> |
| <p>2. <u>Emission Standards</u></p> <p>(a) The permittee shall fire these units with natural gas only.</p> <p>(b) The permittee shall not cause or allow these engines to operate in excess of a combined limit of 10,500 hours during any consecutive 12-month period.</p> <p>(c) The permittee shall not cause or allow the facility-wide emissions of an individual HAP to equal or exceed 10 tons during any consecutive 12-month period or the facility-wide emissions of any combination of HAPs to equal or exceed 25 tons during any consecutive 12-month period.</p> <p>(d) 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>ADEM Admin. Code r. 335-3-4-.01(1)</p> <p>ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.03</p> <p>ADEM Admin. Code r. 335-3-4-.01(1)</p> |
| <p>3. <u>Compliance and Performance Test Methods and Procedures</u></p> <p>(a) 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> |

| Federally Enforceable Provisos | Regulations |
|---|---|
| <p>(b) The permittee shall conduct an evaluation no later than October 19th of each year to determine if these engines meet the definition of remote stationary RICE as defined by 40 CFR §63.6675. If the evaluation indicates that the engines no longer meets the definition of remote stationary RICE, the permittee must comply with all of the requirements for existing non-emergency SI 4SLB RICE with a site rating of more than 500 hp located at an area source of HAP.</p> | <p>40 CFR §63.6603(f)</p> |
| <p>4. <u>Emission Monitoring</u></p> | |
| <p>(a) The permittee shall change the oil and the filter every 2,160 hours of operation or within 1 year plus 30 days of the previous change, whichever comes first; or participate in the oil analysis program as allowed by 40 CFR §63.6625(j).</p> | <p>40 CFR §63.6603 and Table 2d to Subpart ZZZZ</p> |
| <p>(b) The permittee shall inspect each unit's the spark plugs, and all hoses, and belts every 2,160 hours of operation or within 1 year plus 30 days of the previous inspection, whichever comes first, and replace as necessary.</p> | <p>40 CFR §63.6603 and Table 2d to Subpart ZZZZ</p> |
| <p>(c) The permittee shall certify semiannually that only natural gas was fired in these units.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |
| <p>(d) 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>ADEM Admin. Code r. 335-3-16-.05(c)</p> |
| <p>5. <u>Recordkeeping and Reporting Requirements</u></p> | |
| <p>(a) 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> <ul style="list-style-type: none"> (i) 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; (ii) Records of each startup, shutdown, and malfunction in accordance with 40 CFR §63.6(e)(3)(iii) through (v); (iii) Records of the maintenance and the required management practices shown in Table 2d to Subpart ZZZZ; (iv) The permittee shall maintain records of hours of operation on a monthly and 12-month rolling total basis, for each unit; | <p>ADEM Admin. Code r. 335-3-16-.05(c) and 40 CFR §63.6655;</p> |

| Federally Enforceable Provisos | Regulations |
|---|--|
| <p>(v) The permittee shall maintain on file the initial and annual evaluation of the status of these engines. If at any time these engines are no longer considered remote stationary RICE, the permittee should submit a copy of an Initial Notification to EPA Region 4 within 120 days of determining the engines' change in status.</p> | <p>40 CFR §63.6603(f)</p> |
| <p>(b) 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) and 40 CFR §63.6660</p> |
| <p>(c) The Permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (April 14th - October 13th and October 14th - April 13th). The report shall certify that only natural gas was fired in these units during the reporting period.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |

Emission Unit No. 005 (Compressor Engine No. 3)

Summary Page

Description: 4,735 hp Caterpillar, G3616, 4-Stroke, Lean-Burn Natural Gas-fired Reciprocating Engine with Maxim Catalytic Converter

Permitted Operating Schedule: $\frac{10,500 \text{ Hours}}{\text{Year}}$ } Combined Limit with Emission Unit No. 006

Emission Limitations:

| Emission Point No. | Description | Pollutant | Emission Limit | Regulation |
|--------------------|--|-----------------|---|--|
| 005 | 4,735 hp Caterpillar, G3616, 4-Stroke, Lean-Burn Natural Gas-fired Reciprocating Engine w/ Catalytic Converter (Compressor Engine No. 3 (C-200)) | NO _x | N/A | N/A |
| | | CO | N/A | N/A |
| | | VOC | N/A | N/A |
| | | SO ₂ | N/A | N/A |
| | | PM | N/A | N/A |
| | | HAP | Combined Operating Limitation with Emission Unit No. 006: 10,500 hours during any consecutive 12-month period | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |

Emission Unit No. 005 (Compressor Engine No. 3)

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 an affected source under 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The unit is classified as a “remote engine” defined by 40 CFR §63.6675.</p> <p>(c) This unit is subject to a synthetic minor emission limitation to restrict the facility-wide emissions of hazardous air pollutants (HAP), as listed in ADEM Admin. Code 335-3, Appendix G, to below the applicable major source thresholds for HAP during any consecutive 12-month period.</p> <p>(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)].</p> | <p>ADEM Admin. Code r. 335-3-16-.03</p> <p>40 CFR Part 63, Subpart ZZZZ</p> <p>ADEM Admin. Code r. 335-3-14-.03</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> |
| <p>2. <u>Emission Standards</u></p> <p>(a) The permittee shall fire this unit with natural gas only.</p> <p>(b) The permittee shall not cause or allow this engine to operate in excess of a combined limit (with Emission Unit No. 006 (Engine C-7400)) of 10,500 hours during any consecutive 12-month period.</p> <p>(c) The permittee shall not cause or allow the facility-wide emissions of an individual HAP to equal or exceed 10 tons during any consecutive 12-month period or the facility-wide emissions of any combination of HAPs to equal or exceed 25 tons during any consecutive 12-month period.</p> <p>(d) 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>ADEM Admin. Code r. 335-3-4-.01(1)</p> <p>ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.03</p> <p>ADEM Admin. Code r. 335-3-4-.01(1)</p> |

| Federally Enforceable Provisos | Regulations |
|---|---|
| <p>3. <u>Compliance and Performance Test Methods and Procedures</u></p> | |
| <p>(a) 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) The permittee shall conduct an evaluation no later than October 19th of each year to determine if this engine meets the definition of remote stationary RICE as defined by 40 CFR §63.6675. If the evaluation indicates that the engine no longer meets the definition of remote stationary RICE, the permittee must comply with all of the requirements for existing non-emergency SI 4SLB RICE with a site rating of more than 500 Hp located at an area source of HAP.</p> | <p>40 CFR §63.6603(f)</p> |
| <p>4. <u>Emission Monitoring</u></p> | |
| <p>(a) The permittee shall change the oil and the filter every 2,160 hours of operation or within 1 year plus 30 days of the previous change, whichever comes first or participate in the oil analysis program as allowed by 40 CFR §63.6625(j).</p> | <p>40 CFR §63.6603 and Table 2d to Subpart ZZZZ</p> |
| <p>(b) The permittee shall inspect the unit's spark plugs, and all hoses, and belts every 2,160 hours of operation or within 1 year plus 30 days of the previous inspection, whichever comes first, and replace as necessary.</p> | <p>40 CFR §63.6603 and Table 2d to Subpart ZZZZ</p> |
| <p>(c) The permittee shall certify semiannually that only natural gas was fired in this unit.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |
| <p>(d) Within 15 days of the end of each calendar month, the permittee shall calculate the number of hours of operation of this unit for the previous month and the previous 12-month period.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |
| <p>5. <u>Recordkeeping and Reporting Requirements</u></p> | |
| <p>(a) 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> <ul style="list-style-type: none"> (i) 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; (ii) Records of each startup, shutdown, and malfunction in accordance with 40 CFR §63.6(e)(3)(iii) through (v); (iii) Records of the maintenance and the required management practices shown in Table 2d to Subpart ZZZZ; (iv) The permittee shall maintain records of hours of operation on a monthly and 12-month rolling total basis, for this unit; | <p>ADEM Admin. Code r. 335-3-16-.05(c) and 40 CFR §63.6655;</p> |

| Federally Enforceable Provisos | Regulations |
|---|--|
| <p>(v) The permittee shall maintain on file the initial and annual evaluation of the status of this engine. If at any time this engine is no longer considered a remote stationary RICE, the permittee should submit a copy of an Initial Notification to EPA Region 4 within 120 days of determining the engine's change in status.</p> | <p>40 CFR §63.6603(f)</p> |
| <p>(b) 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) and 40 CFR §63.6660</p> |
| <p>(c) The Permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (April 14th - October 13th and October 14th - April 13th). The report shall certify that only natural gas was fired in this unit during the reporting period.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |

Emission Unit No. 006 (Compressor Engine No. 12)

Summary Page

Description: 4,735 hp Caterpillar, G3616, 4-Stroke, Lean-Burn Natural Gas-fired Reciprocating Engine with Maxim Catalytic Converter

Permitted Operating Schedule: $\frac{10,500 \text{ Hours}}{\text{Year}}$ } Combined Limit with Emission Unit No. 005

Emission Limitations:

| Emission Point No. | Description | Pollutant | Emission Limit | Regulation |
|--------------------|--|-----------------|---|--|
| 006 | 4,735 hp Caterpillar, G3616, 4-Stroke, Lean-Burn Natural Gas-fired Reciprocating Engine w/ Catalytic Converter (Compressor Engine No. 12 (C-7400)) | NO _x | 1.0 g/hp-hr or 82 ppmvd at 15% O ₂ | 40 CFR Part 60, Subpart JJJJ |
| | | CO | 2.0 g/hp-hr or 270 ppmvd at 15% O ₂ | 40 CFR Part 60, Subpart JJJJ |
| | | VOC | 0.7 g/hp-hr or 60 ppmvd at 15% O ₂ | 40 CFR Part 60, Subpart JJJJ |
| | | SO ₂ | N/A | N/A |
| | | PM | N/A | N/A |
| | | HAP | Combined Operating Limitation with Emission Unit No. 005: 10,500 hours during any consecutive 12-month period | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |

Emission Unit No. 006 (Compressor Engine No. 12)

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 an affected source under 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.</p> <p>(c) This unit is an affected source under 40 CFR Part 60, Subpart JJJJ, New Source Performance Standards for Stationary Ignition (SI) Internal Combustion Engine (ICE).</p> <p>(d) This unit is subject to a synthetic minor emission limitation to restrict the facility-wide emissions of hazardous air pollutants (HAP), as listed in ADEM Admin. Code 335-3, Appendix G, to below the applicable major source thresholds for HAP during any consecutive 12-month period.</p> <p>(e) 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)].</p> | <p>ADEM Admin. Code r. 335-3-16-.03</p> <p>40 CFR Part 63, Subpart ZZZZ</p> <p>ADEM Admin. Code r. 335-3-10-.02(88) and 40 CFR Part 60, Subpart JJJJ</p> <p>ADEM Admin. Code r. 335-3-14-.03</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> |
| <p>2. <u>Emission Standards</u></p> <p>(a) The permittee shall not cause or allow emissions of nitrogen oxides (NO_x) from this unit to exceed 1.0 g/hp-hr or 82 ppmvd at 15% O₂.</p> <p>(b) The permitted shall not cause or allow emissions of carbon monoxide (CO) from this unit to exceed 2.0 g/hp-hr or 270 ppmvd at 15% O₂.</p> <p>(c) The permittee shall not cause or allow emissions of volatile organic compounds (VOC) from this unit to exceed 0.7 g/hp-hr or 60 ppmvd at 15% O₂.</p> <p>(d) The permittee shall operate and maintain the stationary SI ICE that achieves the emission standards as required in 40 CFR §60.4233 over the entire life of the engine.</p> | <p>ADEM Admin. Code r. 335-3-10-.02(88) and 40 CFR §60.4233(e) and Table 1 to Subpart JJJJ</p> <p>ADEM Admin. Code r. 335-3-10-.02(88) and 40 CFR §60.4233(e) and Table 1 to Subpart JJJJ</p> <p>ADEM Admin. Code r. 335-3-10-.02(88) and 40 CFR §60.4233(e) and Table 1 to Subpart JJJJ</p> <p>40 CFR §60.4234</p> |

| Federally Enforceable Provisos | Regulations |
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| (e) The permittee shall fire this unit with natural gas only. | ADEM Admin. Code r. 335-3-4-.01(1) |
| (f) The permittee shall not cause or allow visible emissions with a six-minute average opacity greater than 20% to be emitted more than once during any 60-minute period. The permittee shall not cause or allow visible emissions with a six-minute average opacity greater than 40% to be emitted at any time. | ADEM Admin. Code r. 335-3-4-.01(1) |
| (g) The permittee shall not cause or allow this engine to operate in excess of a combined limit (with Emission Unit No. 005) of 10,500 hours during any consecutive 12-month period. | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |
| (h) The permittee shall not cause or allow the facility-wide emissions of an individual HAP to equal or exceed 10 tons during any consecutive 12-month period or the facility-wide emissions of any combination of HAPs to equal or exceed 25 tons during any consecutive 12-month period. | ADEM Admin. Code r. 335-3-14-.03 |
| 3. <u>Compliance and Performance Test Methods and Procedures</u> | |
| (a) If testing is required, opacity shall be determined by 40 CFR Part 60, Appendix A, Reference Method 9. | ADEM Admin. Code r. 335-3-1-.05 |
| (b) 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 20 in Appendix A of 40 CFR Part 60. | ADEM Admin. Code r. 335-3-1-.05 |
| (c) 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 | ADEM Admin. Code r. 335-3-1-.05 |
| (d) Compliance with volatile organic compounds (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. | ADEM Admin. Code r. 335-3-1-.05 |
| (e) The permittee must operate and maintain the SI ICE that achieves the emission standards as required in 40 CFR §60.4233 over the entire life of the engine. | 40 CFR §60.4234 |
| (f) The permittee shall demonstrate compliance with the emission standards specified in 40 CFR §60.4233(e) by conducting a performance test every 8,760 hours or 3 years, whichever comes first using the appropriate EPA Reference Method. | 40 CFR §60.4243 (b)(2)(ii) and 40 CFR §60.4244(a)-(f) |
| 4. <u>Emission Monitoring</u> | |
| (a) The permittee shall demonstrate compliance with the emission standards specified in 40 CFR §60.4233(e) by conducting a performance test every 8,760 hours or 3 years, whichever comes first using the appropriate EPA Reference Method. | ADEM Admin. Code r. 335-3-16-.05(c) and 40 CFR §60.4243 (b)(2)(ii) and 40 CFR §60.4244(a)-(f) |

| Federally Enforceable Provisos | Regulations |
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| <p>(b) The permittee shall certify semiannually that only natural gas was fired in this unit.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |
| <p>(c) The permittee shall maintain a maintenance plan on the engine.</p> | <p>40 CFR §60.4243 (b)(2)(ii)</p> |
| <p>5. <u>Recordkeeping and Reporting Requirements</u></p> | |
| <p>(a) The permittee shall submit a written notification of the intent to conduct a performance test to the Air Division at least 30 days in advance.</p> | <p>40 CFR §60.8(d)</p> |
| <p>(b) The permittee must submit a copy of each performance test as conducted in 40 CFR §60.4244 within 60 days after the test has been completed.</p> | <p>40 CFR §60.4245</p> |
| <p>(c) The permittee shall maintain the following records and all applicable records specified in 40 CFR §60.4245. These records include, but may not be limited to:</p> <ul style="list-style-type: none"> (i) A copy of each notification and report submitted to comply with 40 CFR Part 60, Subpart JJJJ, including all documentation supporting any Initial Notification or Notification of Compliance Status; (ii) Records of each startup, shutdown, and malfunction in accordance with 40 CFR §63.6(e)(3)(iii) through (v); (iii) A copy of the maintenance plan and records of maintenance conducted on the engine; (iv) Documentation that the engine meets the emission standards | <p>ADEM Admin. Code r. 335-3-16-.05(c) and 40 CFR §60.4245;</p> |
| <p>(d) 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) and 40 CFR §63.6660</p> |
| <p>(e) The Permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (April 14th - October 13th and October 14th - April 13th). The report shall certify that only natural gas was fired in this unit during the reporting period. The report shall also include a statement that 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>ADEM Admin. Code r. 335-3-16-.05(c)</p> |

Emission Unit Nos. 007 and 008 (Withdrawal Gas Heater Nos. 1 & 2)

Summary Page

Description: Two (2) 10.06 MMBtu/hr Tulpro Natural Gas-fired Withdrawal Gas Heaters

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 |
|----------------------------|--|------------------|-----------------------|-------------------|
| 007 008 | Two (2) 10.06 MMBtu/hr Tulpro Natural Gas-fired Heaters (Withdrawal Gas Heater Nos. 1 & 2) (H1-P100 and H1-P200) | NO _x | N/A | N/A |
| | | | N/A | N/A |
| | | CO | N/A | N/A |
| | | VOC | N/A | N/A |
| | | SO ₂ | N/A | N/A |
| | | PM | N/A | N/A |
| | | HAP | N/A | N/A |

Emission Unit Nos. 007 and 008 (Withdrawal Gas Heater Nos. 1 & 2 (H1-P100 & H1-P200))

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 requirements of 40 CFR Part 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.</p> | <p>ADEM Admin. Code r. 335-3-16-.03</p> <p>ADEM Admin. Code r. 335-3-10-.02(2)(c) and 40 CFR Part 60, Subpart Dc</p> |
| <p>2. <u>Emission Standards</u></p> <p>(a) The permittee shall only fire these units with fuel meeting the definition of “natural gas” as defined at 40 CFR §60.331(u).</p> <p>(b) 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>ADEM Admin. Code r. 335-3-4-.01(1) and ADEM Admin. Code r. 335-3-10-.02(33)</p> <p>ADEM Admin. Code r. 335-3-4-.01(1)</p> |
| <p>3. <u>Compliance and Performance Test Methods and Procedures</u></p> <p>If testing is required, the opacity of stack emissions shall be determined in accordance with Method 9 of 40 CFR Part 60, Appendix A.</p> | <p>ADEM Admin. Code r. 335-3-1-.05</p> |
| <p>4. <u>Emission Monitoring</u></p> <p>The permittee shall certify semiannually that these units were fired with fuel meeting the definition of “natural gas” as defined at 40 CFR §60.331(u).</p> | <p>ADEM Admin. Code r. 335-3-4-.01(1)</p> |
| <p>5. <u>Recordkeeping and Reporting Requirements</u></p> <p>(a) The Permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (April 14th - October 13th and October 14th - April 13th). The report shall certify that only natural gas meeting the definition in 40 CFR §60.331(u) was fired in these units during the reporting period.</p> <p>(b) The permittee shall record and maintain a record of monthly fuel usage for each unit. The records shall be kept in a permanent form suitable for inspection [40 CFR §60.48c(g)].</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>40 CFR §60.48c(g)</p> |

**Emission Unit Nos. 009, 010, and 011 (Withdrawal Gas Heater Nos. 3, 4 & 5)
Summary Page**

Description: Three (3) 18.12 MMBtu/hr ETI Natural Gas-fired Withdrawal Gas Heaters

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 |
|----------------------------|--|------------------|-----------------------|-------------------|
| 009 010 011 | Three (3) 18.12 MMBtu/hr ETI Natural Gas-fired Heaters (Withdrawal Gas Heater Nos. 3, 4, and 5) (P2-H100, P2-H200, and H-7500) | NO _x | N/A | N/A |
| | | CO | N/A | N/A |
| | | VOC | N/A | N/A |
| | | SO ₂ | N/A | N/A |
| | | PM | N/A | N/A |
| | | HAP | N/A | N/A |

Emission Unit Nos. 009, 010, and 011 (Withdrawal Gas Heater Nos. 3, 4 & 5)

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 requirements of 40 CFR Part 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.</p> <p>2. <u>Emission Standards</u></p> <p>(a) The permittee shall only fire these units with fuel meeting the definition of “natural gas” as defined at 40 CFR §60.331(u).</p> <p>(b) 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>3. <u>Compliance and Performance Test Methods and Procedures</u></p> <p>If testing is required, the opacity of stack emissions shall be determined in accordance with Method 9 of 40 CFR Part 60, Appendix A.</p> <p>4. <u>Emission Monitoring</u></p> <p>The permittee shall certify semiannually that these units were fired with fuel meeting the definition of “natural gas” as defined at 40 CFR §60.331(u).</p> <p>5. <u>Recordkeeping and Reporting Requirements</u></p> <p>(a) The Permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (April 14th - October 13th and October 14th - April 13th). The report shall certify that only natural gas meeting the definition in 40 CFR §60.331(u) was fired in these units during the reporting period.</p> <p>(b) The permittee shall record and maintain a record of monthly fuel usage for each unit. The records shall be kept in a permanent form suitable for inspection [40 CFR §60.48c(g)].</p> | <p>ADEM Admin. Code r. 335-3-16-.03</p> <p>ADEM Admin. Code r. 335-3-10-.02(2)(c) and 40 CFR Part 60, Subpart Dc</p> <p>ADEM Admin. Code r. 335-3-4-.01(1) and ADEM Admin. Code r. 335-3-10-.02(33)</p> <p>ADEM Admin. Code r. 335-3-4-.01(1)</p> <p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>40 CFR §60.48c(g)</p> |

Emission Unit No. 012 (TEG Regeneration Skid No. 1 including Reboiler No. 1)

Summary Page

Description: 610 MMSCFD Triethylene Glycol Dehydration Unit including a 1.7 MMBtu/hr Natural Gas-fired TEG Reboiler

Permitted Operating Schedule: $\frac{3,000 \text{ Hours}}{\text{Year}}$

Emission Limitations:

| Emission Point Nos. | Description | Pollutant | Emission Limit | Regulation |
|----------------------------|---|------------------|--|--|
| 012-A | 610 MMSCFD Triethylene Glycol Dehydration Unit (TEG Skid No. 1) | VOC | N/A | N/A |
| | | HAP | Operating Limitation: 3,000 hours during any consecutive 12-month period | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |
| 012-B | 1.7 MMBtu/hr Natural Gas-fired TEG Reboiler No. 1 (H-131) | NO _x | N/A | N/A |
| | | CO | N/A | N/A |
| | | VOC | N/A | N/A |
| | | PM | N/A | N/A |
| | | SO ₂ | N/A | N/A |
| | | HAP | N/A | N/A |

Emission Unit No. 012 (TEG Regeneration Skid No. 1 including Reboiler No. 1)

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 a synthetic minor emission limitation to restrict the facility-wide emissions of hazardous air pollutants (HAP), as listed in ADEM Admin. Code 335-3, Appendix G, to below the applicable major source thresholds for HAP during any consecutive 12-month period. | ADEM Admin. Code r. 335-3-14-.03 |
| (c) 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 cause or allow this unit to operate in excess of 3,000 hours during any consecutive 12-month period. | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |
| (b) The permittee shall not cause or allow the facility-wide emissions of an individual HAP to equal or exceed 10 tons during any consecutive 12-month period or the facility-wide emissions of any combination of HAPs to equal or exceed 25 tons during any consecutive 12-month period. | ADEM Admin. Code r. 335-3-14-.03 |
| (c) 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) |
| 3. <u>Compliance and Performance Test Methods and Procedures</u> | |
| If testing is required, opacity shall be determined by 40 CFR Part 60, Appendix A, Reference Method 9. | ADEM Admin. Code r. 335-3-1-.05 |
| 4. <u>Emission Monitoring</u> | |
| (a) The permittee shall certify semiannually that only natural gas was fired in this unit. | ADEM Admin. Code r. 335-3-16-.05(c) |
| (b) Within 15 days of the end of each calendar month, the permittee shall calculate the number of hours of operation of this unit for the previous month and the previous 12-month period. | ADEM Admin. Code r. 335-3-16-.05(c) |

| Federally Enforceable Provisos | Regulations |
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| <p>5. <u>Recordkeeping and Reporting Requirements</u></p> <p>The Permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (April 14th - October 13th and October 14th - April 13th). The report shall certify that only natural gas was fired in this unit during the reporting period.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |

Emission Unit Nos. 013, 014, and 015 (TEG Regeneration Skid Nos. 2, 3, & 4 including Reboiler Nos. 2, 3, & 4)

Summary Page

Description: Three (3) 350 MMSCFD Triethylene Glycol Dehydration Units including three (3) 2.0 MMBtu/hr Natural Gas-fired Triethylene Glycol Reboilers

Permitted Operating Schedule: $\frac{9,000 \text{ Hours}}{\text{Year}}$ } Combined
Limit

Emission Limitations:

| Emission Point Nos. | Description | Pollutant | Emission Limit | Regulation |
|----------------------------|---|------------------|---|--|
| 013-A 014-A 015-A | Three (3) 350 MMSCFD Triethylene Glycol Dehydration Units (Skid Nos. 2, 3, & 4) | VOC | N/A | N/A |
| | | HAP | Combined Operating Limitation: 9,000 hours during any consecutive 12-month period | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |
| 013-B 014-B 015-B | Three (3) 2.0 MMBtu/hr Natural Gas-fired TEG Reboiler Nos. 2, 3, & 4 (H-130, H-230, and H-7800) | NO _x | N/A | N/A |
| | | CO | N/A | N/A |
| | | VOC | N/A | N/A |
| | | PM | N/A | N/A |
| | | SO ₂ | N/A | N/A |
| | | HAP | N/A | N/A |

**Emission Unit Nos. 013, 014, and 015 (TEG Regeneration Skid Nos. 1, 2, & 3
including Reboiler Nos. 2, 3, & 4)**

Unit Specific Provisos

| Federally Enforceable Provisos | Regulations |
|--|--|
| 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 a synthetic minor emission limitation to restrict the facility-wide emissions of hazardous air pollutants (HAP), as listed in ADEM Admin. Code 335-3, Appendix G, to below the applicable major source thresholds for HAP during any consecutive 12-month period. | ADEM Admin. Code r. 335-3-14-.03 |
| (c) These units are subject to a synthetic minor source emission limit to restrict the 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 cause or allow these units to operate in excess of a combined 9,000 hours during any consecutive 12-month period. | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |
| (b) The permittee shall not cause or allow the facility-wide emissions of an individual HAP to equal or exceed 10 tons during any consecutive 12-month period or the facility-wide emissions of any combination of HAPs to equal or exceed 25 tons during any consecutive 12-month period. | ADEM Admin. Code r. 335-3-14-.03 |
| (c) 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) |
| 3. <u>Compliance and Performance Test Methods and Procedures</u> | |
| If testing is required, opacity of shall be determined by 40 CFR Part 60, Appendix A, Reference Method 9. | ADEM Admin. Code r. 335-3-1-.05 |
| 4. <u>Emission Monitoring</u> | |
| (a) The permittee shall certify semiannually that only natural gas was fired in these units. | ADEM Admin. Code r. 335-3-16-.05(c) |
| (b) 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. | ADEM Admin. Code r. 335-3-16-.05(c) |

| Federally Enforceable Provisos | Regulations |
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| <p>5. <u>Recordkeeping and Reporting Requirements</u></p> <p>The Permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (April 14th - October 13th and October 14th - April 13th). The report shall certify that only natural gas was fired in these units during the reporting period.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |

Emission Unit No. 016 (Emergency Generator Engine No. 1)

Summary Page

Description: 449 hp Caterpillar, 3406B, Compression Ignition Diesel-fired Reciprocating Emergency Engine

Permitted Operating Schedule: $\frac{500 \text{ Hours}}{\text{Year}}$

Emission Limitations:

| Emission Point No. | Description | Pollutant | Emission Limit | Regulation |
|--------------------|--|-----------------|--|--|
| 016 | 449 hp Caterpillar, 3406B, Compression Ignition Diesel-fired Reciprocating Emergency Engine (Emergency Generator Engine No. 1) | NO _x | N/A | 40 CFR Part 63, Subpart ZZZZ |
| | | CO | N/A | |
| | | VOC | N/A | |
| | | SO ₂ | N/A | |
| | | PM | N/A | |
| | | HAP | Operating Limitation: 500 hours during any consecutive 12-month period | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |

Emission Unit No. 016 (Emergency Generator Engine No. 1)

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 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, and meets the criteria for stationary RICE subject to requirements as provided by 40 CFR §63.6590(a)(1)(iii).</p> <p>(c) This unit is subject to a synthetic minor emission limitation to restrict the facility-wide emissions of hazardous air pollutants (HAP), as listed in ADEM Admin. Code 335-3, Appendix G, to below the applicable major source thresholds for HAP during any consecutive 12-month period.</p> <p>(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)].</p> <p>2. <u>Emission Standards</u></p> <p>(a) The permittee shall not cause or allow this unit to operate in excess of 500 hours during any consecutive 12-month period.</p> <p>(b) The Permittee shall comply with the applicable requirements of 40 CFR §63.6603(a) and Table 2d to Subpart ZZZZ, which include, but may not be limited to:</p> <p>(i) Meet the following work practice requirements, except during periods of startup:</p> <p>A. Change oil and filter every 500 hours of operation or within 1 year plus 30 days of the previous change, whichever comes first, or participate in the oil analysis program as allowed by 40 CFR §63.6625(i);</p> <p>B. Inspect air cleaner every 1,000 hours of operation or 1 year plus 30 days of the previous inspection, whichever comes first, and replace as necessary;</p> <p>C. Inspect all hoses and belts every 500 hours of operation or 1 year plus 30 days of the previous inspection, whichever comes first, and replace as necessary.</p> | <p>ADEM Admin. Code r. 335-3-16-.03</p> <p>40 CFR Part 63, Subpart ZZZZ</p> <p>ADEM Admin. Code r. 335-3-14-.03</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04</p> <p>40 CFR §63.6603(a) and Table 2D to Subpart ZZZZ</p> |

| Federally Enforceable Provisos | Regulations |
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| <p>(ii) During periods of startup, minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.</p> <p>(iii) If a unit is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated.</p> <p>(c) The permittee shall not operate this unit except as provided in 40 CFR §63.6640(f)(1) through (f)(4), which include but may not be limited to:</p> <p>(i) Emergency situations;</p> <p>(ii) Operate the emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the test are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engines. Maintenance checks and rediness testing of the units are limited to 100 hours per year; and</p> <p>(iii) Operate the emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted toward the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.</p> | <p>40 CFR §63.6640</p> |
| <p>(d) The permittee shall not discharge more than one six-minute average opacity greater than 20% during any 60-minute period from these units. At no time shall the permittee discharge a six-minute average opacity of particulate emissions greater than 40% from these units.</p> | <p>ADEM Admin. Code r. 335-3-4-.01(1)</p> |
| <p>3. Compliance and Performance Test Methods and Procedures</p> <p>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> |

| Federally Enforceable Provisos | Regulations |
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| <p>4. <u>Emission Monitoring</u></p> <p>(a) The permittee shall fire this unit with diesel fuel only.</p> <p>(b) The permittee shall operate and maintain this unit according to the manufacturer's emission-related written instructions <u>or</u> develop a maintenance plan that provides for, to the extent practicable, the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.</p> <p>(c) Within 15 days of the end of the month, the permittee shall calculate the hours of operation for these units for the previous calendar month and the previous 12-month period.</p> | <p>ADEM Admin. Code r. 335-3-14-.01</p> <p>40 CFR §63.6625(e) & 40 CFR §63.6640(a)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |
| <p>5. <u>Recordkeeping and Reporting Requirements</u></p> <p>(a) The permittee shall keep records of the operation and maintenance of the unit in accordance with 40 CFR §63.6655. At a minimum, these records shall include:</p> <p>(i) For each period of operation, the length of operation and the reason the engine was in operation during that time. For periods of operation designated as “emergency operation,” the records shall reflect what classified the operation as emergency;</p> <p>(ii) The total number of hours the engine was operated during a calendar year subtotaled by the reason the engine was in operation;</p> <p>(iii) The dates of each oil and filter change with the corresponding hour on the hour meter;</p> <p>(iv) The dates of each inspection and replacement of air cleaners, hoses, and belts with the corresponding hour on the hour meter; and</p> <p>(v) The dates and nature of other emission-related repairs and maintenance performed.</p> <p>(b) The permittee shall maintain on-site for the life of this unit either a copy of the manufacturer’s emission-related operation and maintenance instructions for the unit or the maintenance plan developed in accordance with 40 CFR §63.6625(e) for the unit.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c) and 40 CFR §63.6655</p> <p>ADEM Admin. Code r. 335-3-16-.05(c) and 40 CFR §63.6625(e)</p> |

| Federally Enforceable Provisos | Regulations |
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| <p>(c) The Permittee shall maintain files of all information (including all reports and notifications) required by 40 CFR Part 63, Subparts A and ZZZZ for this unit recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 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.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c), 40 CFR §63.6660, and 40 CFR §63.10(b)(1)</p> |
| <p>(d) The permittee shall report to the Air Division any failure to perform a work practice on the schedule required, including instances when the work practice standard was not performed due to emergency operation or unacceptable risk under a federal, state, or local law. The permittee shall submit the report within two working days of the deviation and shall provide an explanation as to why the work practice requirement was not performed.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c) and 40 CFR §63.6640(b)</p> |
| <p>(e) The permittee shall maintain a record of the hours of operation for this unit on a monthly and 12-month rolling total basis. These records shall be maintained in a permanent form suitable for inspection and be made available upon request.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |
| <p>(f) The permittee shall submit a Semiannual Monitoring Report, as required by general Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (April 14th - October 13th and October 14th - April 13th). The report shall include a statement addressing whether only diesel was fired in this unit during the reporting period. In addition, the permittee shall provide the 12-month rolling totals calculated for this unit during the reporting period.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |

Emission Unit No. 018 (Emergency Generator Engine No. 3)

Summary Page

Description: 755 hp Cummins QSX15-G9, Compression Ignition Diesel-fired Reciprocating Emergency Engine

Permitted Operating Schedule: $\frac{500 \text{ Hours}}{\text{Year}}$

Emission Limitations:

| Emission Point No. | Description | Pollutant | Emission Limit | Regulation |
|--------------------|--|------------------------|--|--|
| 018 | 755 hp Cummins QSX15-G9, Compression Ignition Diesel-fired Reciprocating Emergency Engine (Emergency Generator Engine No. 3) | NO _x + NMHC | 6.4 g/kW-hr (4.8 g/hp-hr) | 40 CFR Part 60, Subpart III and ADEM Admin. Code r. 335-3-10-.02(87) |
| | | CO | 3.5 g/kW-hr (2.6 g/hp-hr) | |
| | | VOC | N/A | |
| | | SO ₂ | <15 ppm diesel fuel sulfur content and a minimum cetane index of 40 <u>or</u> the aromatic content <35% volume | |
| | | PM | 0.2 g/kW-hr (0.15 g/hp-hr) | |
| | | HAP | Operating Limitation: 500 hours during any consecutive 12-month period | ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04 |

Emission Unit No. 018 (Emergency Generator Engine No. 3)

Unit Specific Provisos

| Federally Enforceable Provisos | Regulations |
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| <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 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.</p> <p>(c) This unit is subject to 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.</p> <p>(d) This unit is subject to a synthetic minor emission limitation to restrict the facility-wide emissions of hazardous air pollutants (HAP), as listed in ADEM Admin. Code 335-3, Appendix G, to below the applicable major source thresholds for HAP during any consecutive 12-month period.</p> <p>(e) 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)].</p> | <p>ADEM Admin. Code r. 335-3-16-.03</p> <p>40 CFR Part 63, Subpart ZZZZ</p> <p>ADEM Admin. Code r. 335-3-10-.02(87) and 40 CFR Part 60, Subpart IIII</p> <p>ADEM Admin. Code r. 335-3-14-.03</p> <p>ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04</p> |
| <p>2. <u>Emission Standards</u></p> <p>(a) The permittee shall not cause or allow this unit to operate in excess of 500 hours during any consecutive 12-month period.</p> <p>(b) The permittee shall comply with the following applicable emission standards in 40 CFR Part 1039, Appendix I as required by 40 CFR §60.4205(b) and 40 CFR §60.4202(a)(2):</p> <p>(i) The sum of the emissions of non-methane hydrocarbons (NMHC) and nitrogen oxides (NO_x) shall not exceed 6.4 g/kW-hr (4.8 g/hp-hr);</p> <p>(ii) carbon monoxide emissions shall not exceed 3.5 g/kW-hr (2.6 g/hp-hr); and</p> <p>(iii) particulate matter (PM) emissions shall not exceed 0.20 g/kW-hr (0.15 g/hp-hr).</p> | <p>ADEM Admin. Codes r. 335-3-14-.03 and 335-3-14-.04</p> <p>40 CFR Part 1039. Appendix I, 40 CFR §60.4205(b), and §60.4202(a)(2)</p> |

| Federally Enforceable Provisos | Regulations |
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| <p>(c) The permittee shall not burn any diesel fuel in this unit that does not meet the following per-gallon standards of 40 CFR §1090.305 for non-road diesel:</p> <ul style="list-style-type: none"> (i) Sulfur content shall not exceed 15 parts per million (ppm); and (ii) cetane index shall be a minimum of 40 or the aromatic content shall not exceed 35 volume percent. <p>(d) The permittee shall not operate this engine except as provided in 40 CFR §60.4211(f)(1)-(f)(3), which includes but may not be limited to:</p> <ul style="list-style-type: none"> (i) Emergency situations; (ii) Maintenance checks and readiness testing, not to exceed 100 hours per year; and (iii) Non-emergency situations, not to exceed 50 hours per year (the 50 hours are counted towards the 100 hours per year for maintenance and testing). <p>(e) The permittee shall not discharge more than one six-minute average opacity greater than 20% during 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>40 CFR §1090.305 and 40 CFR §60.4207(b)</p> <p>40 CFR §60.4211(f)(1)-(3)</p> <p>ADEM Admin. Code r. 335-3-4-.01(1)</p> |
| <p>3. <u>Compliance and Performance Test Methods and Procedures</u></p> <p>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>4. <u>Emission Monitoring</u></p> <p>(a) By the last day of each calendar month, the permittee shall calculate the monthly and 12-month rolling total hours of operation for this unit.</p> <p>(b) Over the entire life of this unit, the permittee shall operate and maintain this unit according to the manufacturer's emission-related written instructions, change only those emission-related settings that are permitted by the manufacturer, and meet the applicable requirements of 40 CFR Part 1068.</p> <p>(c) The permittee shall purchase an engine certified to the meet the applicable emissions standards specified in 40 CFR §60.4205(b).</p> <p>(d) Within 15 days of the end of the month, the permittee shall calculate the hours of operation for this unit for the previous calendar month and the previous 12-month period.</p> <p>(e) This unit shall be equipped with a non-resettable hour meter.</p> | <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>40 CFR §60.4206 and 40 CFR §60.4211(a).</p> <p>40 CFR §60.4211(c)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>40 CFR §60.4209(a)</p> |

| Federally Enforceable Provisos | Regulations |
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| <p>5. <u>Recordkeeping and Reporting Requirements</u></p> <p>(a) The permittee shall keep records of the hours of operation, including the time and reason that this unit was in operation, through the non-resettable hour meter.</p> <p>(b) The permittee shall maintain files of all information (including all reports and notifications) required by 40 CFR Part 60, Subpart IIII for this unit recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 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.</p> <p>(c) The permittee shall submit a Semiannual Monitoring Report, as required by general Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (April 14th - October 13th and October 14th - April 13th). The report shall include a statement addressing whether only diesel was fired in this unit during the reporting period. In addition, the permittee shall provide the 12-month rolling totals calculated for this unit during the reporting period.</p> | <p>40 CFR §60.4214(b)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |

Emission Unit No. 019 (Fuel Gas Heater (H-7860))
Summary Page

Description: 1.3 MMBtu/hr Natural Gas-fired Fuel Gas Heater

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

Emission Limitations:

| Emission Point No. | Description | Pollutant | Emission Limit | Regulation |
|---------------------------|---|------------------|-----------------------|-------------------|
| 019 | 1.3 MMBtu/hr Natural Gas-fired Fuel Gas Heater (H-7860) | NO _x | N/A | N/A |
| | | CO | N/A | N/A |
| | | VOC | N/A | N/A |
| | | SO ₂ | N/A | N/A |
| | | PM | N/A | N/A |
| | | HAP | N/A | N/A |

Emission Unit No. 011 (Fuel Gas Heater (H-7860))

Unit Specific Provisos

| Federally Enforceable Provisos | Regulations |
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| <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>2. <u>Emission Standards</u></p> <p>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>3. <u>Compliance and Performance Test Methods and Procedures</u></p> <p>If testing is required, opacity of shall be determined by 40 CFR Part 60, Appendix A, Reference Method 9.</p> <p>4. <u>Emission Monitoring</u></p> <p>The permittee shall certify semiannually that only natural gas was fired in this unit.</p> <p>5. <u>Recordkeeping and Reporting Requirements</u></p> <p>(a) The permittee shall submit a Semiannual Monitoring Report, as required by general Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual reporting period (April 14th - October 13th and October 14th - April 13th). The report shall include a statement addressing whether only natural gas was fired in this unit during the reporting period.</p> | <p>ADEM Admin. Code r. 335-3-16-.03</p> <p>ADEM Admin. Code r. 335-3-4-.01(1)</p> <p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> |