

## MAJOR SOURCE OPERATING PERMIT

**PERMITTEE:** LSB CHEMICAL L.L.C.  
**FACILITY NAME:** LSB CHEMICAL L.L.C.  
**FACILITY/PERMIT NO.:** 701-0013  
**LOCATION:** CHEROKEE, COLBERT 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:** DRAFT

## TABLE OF CONTENTS

<b>GENERAL PERMIT PROVISOS .....</b>	<b>0-1</b>
<b>SYNTHETIC AMMONIA PLANT.....</b>	<b>1-1</b>
<b>SYNTHETIC AMMONIA PLANT PROVISOS.....</b>	<b>1-2</b>
APPLICABILITY .....	1-2
EMISSION STANDARDS .....	1-2
COMPLIANCE AND PERFORMANCE TEST METHODS AND PROCEDURES.....	1-2
EMISSION MONITORING .....	1-3
RECORDKEEPING AND REPORTING REQUIREMENTS.....	1-3
<b>NITRIC ACID PLANT NO. 2.....</b>	<b>2-1</b>
<b>NITRIC ACID PLANT NO. 2 PROVISOS.....</b>	<b>2-2</b>
APPLICABILITY .....	2-2
EMISSION STANDARDS.....	2-2
COMPLIANCE AND PERFORMANCE TEST METHODS AND PROCEDURES.....	2-2
EMISSION MONITORING .....	2-3
RECORDKEEPING AND REPORTING REQUIREMENTS.....	2-3
<b>AMMONIUM NITRATE PLANT NEUTRALIZATION .....</b>	<b>3-1</b>
<b>AMMONIUM NITRATE PLANT NEUTRALIZATION PROVISOS .....</b>	<b>3-2</b>
APPLICABILITY .....	3-2
EMISSION STANDARDS.....	3-2
COMPLIANCE AND PERFORMANCE TEST METHODS AND PROCEDURES.....	3-2
EMISSION MONITORING .....	3-2
RECORDKEEPING AND REPORTING REQUIREMENTS.....	3-3
<b>97.6 MMBTU/HR BOILER NATURAL GAS WITH LOW NOX BURNERS AND WITH NO.2 FUEL OIL BACKUP .....</b>	<b>4-1</b>
<b>97.6 MMBTU/HR BOILER NATURAL GAS WITH LOW NOX BURNERS AND WITH NO.2 FUEL OIL BACKUP PROVISOS.....</b>	<b>4-2</b>
APPLICABILITY .....	4-2
EMISSION STANDARDS.....	4-2
COMPLIANCE AND PERFORMANCE TEST METHODS AND PROCEDURES.....	4-2
EMISSION MONITORING .....	4-3
RECORDKEEPING AND REPORTING REQUIREMENTS.....	4-3
<b>2,000 GALLON GASOLINE STORAGE TANK.....</b>	<b>5-1</b>
<b>2,000 GALLON GASOLINE STORAGE TANK PROVISOS.....</b>	<b>5-2</b>
APPLICABILITY .....	5-2
EMISSION STANDARDS.....	5-2
COMPLIANCE AND PERFORMANCE TEST METHODS AND PROCEDURES.....	5-2
EMISSION MONITORING .....	5-2
RECORDKEEPING AND REPORTING REQUIREMENTS.....	5-2
<b>DIESEL FIRED ENGINE FOR WATER PUMP.....</b>	<b>6-1</b>
<b>DIESEL FIRED ENGINE FOR WATER PUMP PROVISOS .....</b>	<b>6-2</b>
APPLICABILITY .....	6-2
EMISSION STANDARDS.....	6-2

COMPLIANCE AND PERFORMANCE TEST METHODS AND PROCEDURES.....	6-2
EMISSION MONITORING .....	6-3
RECORDKEEPING AND REPORTING REQUIREMENTS .....	6-3
<b>16.5 MMBTU/HR NATURAL GAS FIRED BOILER.....</b>	<b>7-1</b>
<b>16.5 MMBTU/HR NATURAL GAS FIRED BOILER PROVISOS .....</b>	<b>7-2</b>
APPLICABILITY .....	7-2
EMISSION STANDARDS .....	7-2
COMPLIANCE AND PERFORMANCE TEST METHODS AND PROCEDURES.....	7-2
EMISSION MONITORING .....	7-2
RECORDKEEPING AND REPORTING REQUIREMENTS .....	7-3
<b>1495 HP DIESEL FIRED EMERGENCY GENERATOR.....</b>	<b>8-1</b>
<b>1495 HP DIESEL FIRED EMERGENCY GENERATOR PROVISOS.....</b>	<b>8-2</b>
APPLICABILITY .....	8-2
EMISSION STANDARDS.....	8-2
COMPLIANCE AND PERFORMANCE TEST METHODS AND PROCEDURES.....	8-2
EMISSION MONITORING .....	8-3
RECORDKEEPING AND REPORTING REQUIREMENTS .....	8-3
<b>APPENDIX A.....</b>	<b>9-1</b>

# General Permit Provisos

## Federally Enforceable Provisos

## Regulations

### 1. Transfer

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 Rule 335-3-16-.13(1)(a)5.

Rule 335-3-16-.02(6)

### 2. Renewals

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.

Rule 335-3-16-.12(2)

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.

### 3. Severability Clause

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, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.

Rule 335-3-16-.05(e)

### 4. Compliance

(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.

Rule 335-3-16-.05(f)

(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.

Rule 335-3-16-.05(g)

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p><b>5. <u>Termination for Cause</u></b></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>	Rule 335-3-16-.05(h)
<p><b>6. <u>Property Rights</u></b></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	Rule 335-3-16-.05(i)
<p><b>7. <u>Submission of Information</u></b></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department 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 Department copies of records required to be kept by this permit.</p>	Rule 335-3-16-.05(j)
<p><b>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></b></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>	Rule 335-3-16-.05(k)
<p><b>9. <u>Certification of Truth, Accuracy, and Completeness:</u></b></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>	Rule 335-3-16-.07(a)
<p><b>10. <u>Inspection and Entry</u></b></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>	Rule 335-3-16-.07(b)

# General Permit Provisos

## Federally Enforceable Provisos

## Regulations

- (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;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.

### 11. Compliance Provisions

- (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.
- (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.

Rule 335-3-16-.07(c)

### 12. Compliance Certification

A compliance certification shall be submitted annually by March 1<sup>st</sup> of each year, unless more frequent periods are specified according to the specific rule governing the source or required by the Department.

Rule 335-3-16-.07(e)

- (a) The compliance certification shall include the following:
  - (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) or other means used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recording Keeping Requirements);
  - (4) Whether compliance has been continuous or intermittent;
  - (5) Such other facts as the Department may require to determine the compliance status of the source;

## General Permit Provisos

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<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</p> <p style="text-align: center;">and to:</p> <p style="text-align: center;">Enforcement and Compliance Assurance Division EPA Region IV Atlanta Federal Center 61 Forsyth Street, SW Atlanta, GA 30303</p> <p><b>13. <u>Reopening for Cause</u></b></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	<p>Rule 335-3-16-.13(5)</p>

## General Permit Provisos

### Federally Enforceable Provisos

### Regulations

#### 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 shall be reported to the Department at least twenty-four (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:

Rule 335-3-1-.07(1),(2)

- (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;
- (3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;
- (4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;
- (5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.

(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.

#### 16. Operation of Capture and Control Devices

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.

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

## General Permit Provisos

### Federally Enforceable Provisos

### Regulations

**17. Obnoxious Odors**

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.

Rule 335-3-1-.08

**18. Fugitive Dust**

- (a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.
- (b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne:
  - (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; or
  - (2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; or
  - (3) By paving; or
  - (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; or
  - (5) By any combination of the above methods which results in the prevention of dust becoming airborne from the road surface.

Rule 335-3-4-.02

**19. Additions and Revisions**

Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.

Rule 335-3-16-.13 and .14

**20. Recordkeeping Requirements**

- (a) Records of required monitoring information of the source shall include the following:
  - (1) The date, place, and time of all sampling or measurements;
  - (2) The date analyses were performed;
  - (3) The company or entity that performed the analyses;
  - (4) The analytical techniques or methods used;

335-3-16-.05(c)2.

# General Permit Provisos

## Federally Enforceable Provisos

## Regulations

- (5) The results of all analyses; and
  - (6) The operating conditions that existed at the time of sampling or measurement.
- (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.

### 21. Reporting Requirements

- (a) Reports to the Department of any required monitoring shall be submitted at least every six 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 Rule 335-3-16-.04(9).
- (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.

Rule 335-3-16-.05(c)(3)

### 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.

Rule 335-3-1-.05(3) and  
Rule 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:

- (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.

Rule 335-3-1-.04

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<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 require 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>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>Rule 335-3-1-.04</p>
<p><b>23. <u>Payment of Emission Fees</u></b></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code r. 335-1-7-.04.</p>	<p>Rule 335-1-7-.04</p>
<p><b>24. <u>Other Reporting and Testing Requirements</u></b></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>Rule 335-3-1-.04(1)</p>
<p><b>25. <u>Title VI Requirements (Refrigerants)</u></b></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>335-3-16-.05(a)</p>

## General Permit Provisos

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<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><b>26. <u>Chemical Accidental Prevention Provisions</u></b></p> <p>If a chemical listed in Table 1 of 40 CFR Part 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>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 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>40 CFR Part 68</p>
<p><b>27. <u>Display of Permit</u></b></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>Rule 335-3-14-.01(1)(d)</p>
<p><b>28. <u>Circumvention</u></b></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>Rule 335-3-1-.10</p>
<p><b>29. <u>Visible Emissions</u></b></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>Rule 335-3-4-.01(1)</p>

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p><b>30. <u>Fuel-Burning Equipment</u></b></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 Part 335-3-4-.03(1).</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 Part 335-3-5-.01.</p>	<p>Rule 335-3-4-.03(1)</p> <p>Rule 335-3-5-.01</p>
<p><b>31. <u>Process Industries – General</u></b></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 Part 335-3-4-.04.</p>	<p>Rule 335-3-4-.04</p>
<p><b>32. <u>Averaging Time for Emission Limits</u></b></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>Rule 335-3-1-.05</p>
<p><b>33. <u>Permit Shield</u></b></p> <p>A permit shield exists under this operating permit in accordance with ADEM Administrative 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. The permit shield is based on the accuracy of the information supplied in Section 3 of the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in such section are not applicable to this source.</p>	<p>Rule 335-3-16-.10</p>
<p><b>34. <u>Compliance Assurance Monitoring (CAM)</u></b></p> <p>Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.</p> <p><b>(a) <u>Operation of Approved Monitoring</u></b></p> <p>(1) Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).</p>	<p>40 CFR 64.7</p>

## General Permit Provisos

### Federally Enforceable Provisos

### Regulations

- (2) Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
- (3) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.
- (4) Response to excursions or exceedances.
  - (A) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

## General Permit Provisos

### Federally Enforceable Provisos

### Regulations

- (B) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
- (5) Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
- (b) Quality Improvement Plan (QIP) Requirements**
- (1) Based on the results of a determination made under Section 34(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.
- (2) Elements of a QIP:
- (A) The owner or operator shall maintain a written QIP, if required, and have it available for inspection.

40 CFR 64.8

## General Permit Provisos

### Federally Enforceable Provisos

### Regulations

- (B) The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:
- (i) Improved preventive maintenance practices.
  - (ii) Process operation changes.
  - (iii) Appropriate improvements to control methods.
  - (iv) Other steps appropriate to correct control performance.
  - (v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).
- (3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.
- (4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 34(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:
- (A) Failed to address the cause of the control device performance problems; or
  - (B) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.

## General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>(c) <b>Reporting and Recordkeeping Requirements</b></p> <p>(6) General reporting requirements</p> <p>(A) On and after the date specified in Section 34(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code r. 335-3-16-.05(c)3.</p> <p>(B) A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code r. 335-3-16-.05(c)3. and the following information, as applicable:</p> <p>(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;</p> <p>(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and</p> <p>(iii) A description of the actions taken to implement a QIP during the reporting period as specified in Section 34(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.</p> <p>(7) General recordkeeping requirements.</p> <p>(A) The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code r. 335-3-16-.05(c)2.. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 34(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).</p>	40 CFR 64.9

## General Permit Provisos

### Federally Enforceable Provisos

### Regulations

<p>(B) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.</p>	
<p><b>(d) Savings Provisions</b></p>	40 CFR 64.10
<p>(8) Nothing in this part shall:</p> <p>(A) Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.</p> <p>(B) Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.</p> <p>(C) Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.</p>	

# Synthetic Ammonia Plant

## Informational Summary

**Description:** Synthetic Ammonia Plant

**Emission Unit:** 001

**Operating Schedule:** 8,760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

### 40 CFR Part 63, Subpart VVVVVV

Pollutants Emitted

<b>Emission Point No.</b>	<b>Point Description</b>	<b>Pollutant</b>	<b>Emission Limit</b>	<b>Standard</b>
001A	Desulfurization	CO	N/A	N/A
001A	Desulfurization	SO <sub>2</sub>	N/A	N/A
001A	Desulfurization	VOC	N/A	N/A
001B	Reformer (228.5 MMBtu/hr)	PM	0.12 lb/MMBtu	335-3-4-.03(1)
001B	Reformer (228.5 MMBtu/hr)	SO <sub>2</sub>	4.0 lb/MMBtu	335-3-5-.01(b)
001B	Reformer (228.5 MMBtu/hr)	Visible Emissions	Opacity is limited to 20% in any 6 minute period	335-3-4-.01
001B	Reformer (228.5 MMBtu/hr)	NO <sub>2</sub>	N/A	N/A
001B	Reformer (228.5 MMBtu/hr)	CO	N/A	N/A
001B	Reformer (228.5 MMBtu/hr)	VOC	N/A	N/A
001C	Flash Tank 148-F	VOC	N/A	N/A
001D	CO <sub>2</sub> Stripper Vent	CO <sub>2</sub> e	N/A	N/A
013	Ammonia Flare	N/A	N/A	N/A

## Synthetic Ammonia Plant Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source 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
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, Visible Emissions.	ADEM Admin. Code r. 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, Control of Particulate Emissions – Fuel Burning Equipment.	ADEM Admin. Code r. 335-3-4-.03
4. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-5-.01, Control of Sulfur Compound Emissions – Fuel Combustion.	ADEM Admin. Code r. 335-3-5-.01
5. The following chemical manufacturing processing units (CMPUs) are subject to the requirements of 40 CFR Part 63, Subpart VVVVVV - National Emissions Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources: The Primary Reformer, Secondary Reformer, Methanator, Low Temperature Shift Converter, and High Temperature Shift Converter.	ADEM Admin. Code r. 335-3-11-.06(151)
<i>Emission Standards</i>	
1. This source shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code r. 335-3-4-.01
2. The particulate matter (PM) emission rate from the reformer (001B) shall not exceed the amount determined by the equation: $E = 1.38 (H)^{0.44}$ Where: E = Emissions in pound per hour H = heat input in millions of Btu/hr	ADEM Admin. Code r. 335-3-4-.03(1)
3. The sulfur dioxide emission rate from the reformer (001B) shall not exceed 4.0 pounds per million BTU heat input.	ADEM Admin. Code r. 335-3-5-.01(b)
4. The Ammonia Flare (003) shall meet the requirements of §63.11(b).	ADEM Admin. Code r. 335-3-14-.04
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the opacity requirement shall be determined by EPA Reference Method 9 in Appendix A of 40 CFR 60.	ADEM Admin. Code r. 335-3-10-.03(1)

## Synthetic Ammonia Plant Provisos

Federally Enforceable Provisos	Regulations
2. Compliance with the particulate matter (PM) emission rates shall be determined by EPA Reference Method 5 of 40 CFR 60 Appendix A.	ADEM Admin. Code r. 335-3-10-.03(1)
3. Compliance with the sulfur dioxide (SO <sub>2</sub> ) emission rate shall be determined by EPA Reference Method 6 in Appendix A of 40 CFR 60.	ADEM Admin. Code r. 335-3-10-.03(1)
4. The following chemical manufacturing processing units (CMPUs) are subject to the management practices in 40 CFR 63.11495: the Primary Reformer, Secondary Reformer, Methanator, Low Temperature Shift Converter, and High Temperature Shift Converter.	ADEM Admin. Code r. 335-3-11-.06(151)
<i>Emission Monitoring</i>	
1. As an indicator of compliance with the opacity requirement, visible emissions shall be monitored on a weekly basis. If visible emissions are observed, a Visual Determination of Opacity shall be performed using EPA Method 9 or corrective action shall be taken withing one (1) hour of discovery.	ADEM Admin. Code r. 335-3-4-.01
<i>Recordkeeping and Reporting Requirements</i>	
1. Records shall be kept of any visible emission observations required under Emission Monitoring of this section and of the corrective action taken. These records shall be kept in a form suitable for inspection for a period of at least five (5) years.	ADEM Admin. Code r. 335-3-16-.05
2. The following chemical manufacturing processing units (CMPUs) are subject to the recordkeeping requirements in 40 CFR 63.11501: the Primary Reformer, Secondary Reformer, Methanator, Low Temperature Shift Converter, and High Temperature Shift Converter.	ADEM Admin. Code r. 335-3-11-.06(151)

## Nitric Acid Plant No. 2

### Informational Summary

**Description:** Nitric Acid Plant No. 2 – 680 Tons of 100% Acid per Day

**Emission Unit:** 003

**Operating Schedule:** 8,760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

#### 40 CFR Part 60, Subpart G

Pollutants Emitted

<b>Emission Point No.</b>	<b>Point Description</b>	<b>Pollutant</b>	<b>Emission Limit</b>	<b>Standard</b>
003	Nitric Acid Plant No. 2 with Selective Catalytic Reduction (SCR) Unit for control	NO <sub>x</sub>	0.6 lb/ton of 100% Nitric Acid Produced (365-day rolling average basis, including startup, shutdown, and malfunction related emissions)	335-3-14-.04 Consent Decree
003	Nitric Acid Plant No. 2 with SCR Unit for control	NO <sub>x</sub>	1.0 lb/ton of 100% Nitric Acid Produced (3-hour rolling average basis, excluding startup, shutdown, and malfunction related emissions)	335-3-14-.04 Consent Decree
003	Nitric Acid Plant No. 2 with SCR Unit for control	CO <sub>2</sub> e	N/A	N/A
003	Nitric Acid Plant No. 2 with SCR Unit for control	Visible Emissions	Opacity is limited to 10% in any 6 minute period	335-3-10-.02(5)

## Nitric Acid Plant No. 2 Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source 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
2. This source is subject to the applicable requirements of 40 CFR Part 60 Subpart A - General Provisions.	Consent Decree
3. This source is subject to the applicable requirements of 40 CFR Part 60, Subpart G – Standards of Performance for New Stationary Sources for Nitric Acid Plants.	Consent Decree
4. This source is subject to synthetic minor PSD emission limitations.	ADEM Admin. Code r. 335-3-14-.04
5. This source is subject to the Compliance Assurance Monitoring rule set forth in 40 CFR Part 64.	ADEM Admin. Code r. 335-3-14-.04
<i>Emission Standards</i>	
1. This source shall not discharge into the atmosphere opacity greater than ten percent (10%).	ADEM Admin. Code r. 335-3-10-.02(5)
2. This source shall not operate without venting to the Selective Catalytic Reduction (SCR) unit for control.	ADEM Admin. Code r. 335-3-14-.04 Consent Decree
3. Nitrogen oxide (NO <sub>x</sub> ) shall not be discharged into the atmosphere from Nitric Acid Plant No. 2 (003) in excess of 0.6 pounds per ton of 100% nitric acid produced. This emission limit (as measured by the CEMs) shall be based on a 395-day rolling average basis, inclusive of startup, shutdown, and malfunction related emissions.	ADEM Admin. Code r. 335-3-14-.04 Consent Decree
4. Nitrogen oxide (NO <sub>x</sub> ) shall not be discharged into the atmosphere from Nitric Acid Plant No. 2 (003) in excess of 1.0 pounds per ton of 100% nitric acid produced. This emission limit (as measured by the CEMs) shall be based on a 3-hour rolling average basis, exclusive of startup, shutdown, and malfunction related emissions.	ADEM Admin. Code r. 335-3-14-.04 Consent Decree
5. The Nitrogen Oxide (NO <sub>x</sub> ) emission limits for this plant were established pursuant to a negotiated Consent Decree (effective May 28, 2014) with the United States and the State of Alabama and cannot be relaxed without the approval of EPA and the State of Alabama.	Consent Decree
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Emission tests for nitrogen oxide (NO <sub>x</sub> ) shall be conducted in accordance with the EPA Reference Method 7E in Appendix A of 40 CFR 60.	ADEM Admin. Code r. 335-3-10-.03(1)

## Nitric Acid Plant No. 2 Provisos

Federally Enforceable Provisos	Regulations
<p>2. Compliance with the opacity requirement shall be determined by EPA Reference Method 9 in Appendix A of 40 CFR 60.</p> <p><i>Emission Monitoring</i></p> <p>1. A continuous monitoring system for the measurement of nitrogen oxide (NO<sub>x</sub>) shall be installed, calibrated, maintained, and operated in accordance with the requirements of 40 CFR 60 Appendix B and Attachment C of the Consent Decree (effective May 28, 2014), which is incorporated into this permit as Nitric Acid Plant CEMS Plan. The monitoring methods specified in the CEMS Plan are deemed approved as appropriate alternative monitoring methods of 40 CFR Part 64.</p> <p>2. Visible emissions from the exhaust stack of the SCR shall be monitored on a weekly basis by someone familiar with EPA Reference Method 9 of 40 CFR Part 60 Appendix A. If visible emissions are observed greater than the 10% opacity limit, corrective action shall be taken immediately, but no later than 24 hours. Once corrective actions have been completed, additional visual opacity observations shall be performed.</p> <p><i>Recordkeeping and Reporting Requirements</i></p> <p>1. Records of each month's hours of operation and production shall be kept in a form suitable for inspection.</p> <p>2. A written report of excess nitrogen oxide (NO<sub>x</sub>) emission, as determined by the monitoring system, shall be submitted to the Department every calendar quarter in accordance with 40 CFR 60.7.</p> <p>3. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken. These records shall be kept in a form suitable for inspection for a period of at least five (5) years.</p> <p>4. A report summarizing the information in proviso 1 of this section shall be submitted each calendar quarter with the excess emissions report.</p>	<p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(2)</p> <p>40 CFR Part 64</p> <p>Consent Decree</p> <p>ADEM Admin. Code r. 335-3-10-.02(5)</p> <p>ADEM Admin. Code r. 335-3-14.04</p> <p>ADEM Admin. Code r. 335-3-10-.02(1)</p> <p>ADEM Admin. Code r. 335-3-16-.05</p> <p>ADEM Admin. Code r. 335-3-1-.04</p>

# Ammonium Nitrate Plant Neutralization

## Informational Summary

**Description:** Ammonium Nitrate Plant Neutralization

**Emission Unit:** 004

**Operating Schedule:** 8,760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

N/A

Pollutants Emitted

<b>Emission Point No.</b>	<b>Point Description</b>	<b>Pollutant</b>	<b>Emission Limit</b>	<b>Standard</b>
004	No. 1 Neutralizer with gas scrubber for control	PM	1.9 lb/hr	335-3-4-.04(1)
004	No. 1 Neutralizer with gas scrubber for control	Ammonia	N/A	N/A
004	No. 1 Neutralizer with gas scrubber for control	Nitric Acid	N/A	N/A
004	No. 1 Neutralizer with gas scrubber for control	Visible Emissions	Opacity is limited to 20% in any 6 minute period	335-3-4-.01

## Ammonium Nitrate Plant Neutralization Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source 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
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, Visible Emissions.	ADEM Admin. Code r. 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, Process Industries - General	ADEM Admin. Code r. 335-3-4-.04(1)
4. This source is subject to the Compliance Assurance Monitoring rule set forth in 40 CFR Part 64.	40 CFR Part 64
<i>Emission Standards</i>	
1. This source shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code r. 335-3-4-.01
2. The particulate matter (PM) emission rate from the No. 1 Neutralizer (004) shall not exceed 1.9 lb/hr.	ADEM Admin. Code r. 335-3-4-.04(1)
3. This source shall not operate without venting to the Gas Scrubber for control.	ADEM Admin. Code r. 335-3-14-.04
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the opacity requirement shall be determined by EPA Reference Method 9 in Appendix A of 40 CFR 60.	ADEM Admin. Code r. 335-3-10-.03(1)
2. Compliance with the particulate matter (PM) emission rates shall be determined by EPA Reference Method 5 of 40 CFR 60 Appendix A.	335-3-10-.03(1)
<i>Emission Monitoring</i>	
1. The neutralizing solution from the No. 1 Neutralizer (004) shall be monitored every two (2) hours during operation to maintain the acidity reading from -0.10 (acidic) to +0.30 (basic). This is considered to meet the compliance assurance monitoring (CAM) requirements of 40 CFR Part 64.	ADEM Admin. Code r. 335-3-14-.04  40 CFR Part 64

## Ammonium Nitrate Plant Neutralization Provisos

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<i>Recordkeeping and Reporting Requirements</i>  1. Records shall be kept of the neutralizer solution acidity as required under Emission Monitoring of this section. These records shall be kept in a form suitable for inspection for a period of at least five (5) years.	  ADEM Admin. Code r. 335-3-14-.04

## 97.6 MMBtu/hr Boiler Natural Gas with Low NOx Burners and with No.2 Fuel Oil Backup

### Informational Summary

**Description:** 97.6 MMBTU/hr Boiler Natural Gas with Low NOx Burners and with No.2 Fuel Oil Backup

**Emission Unit:** 006

**Operating Schedule:** 8,760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

**40 CFR Part 60, Subpart Dc**

Pollutants Emitted

<b>Emission Point No.</b>	<b>Point Description</b>	<b>Pollutant</b>	<b>Emission Limit</b>	<b>Standard</b>
006	97.6 MMBtu/hr Boiler	SO <sub>2</sub>	0.5 lb/MMBtu	335-3-10-.02(c)
006	97.6 MMBtu/hr Boiler	Visible Emissions	Opacity is limited to 20% in any 6 minute period	335-3-10-.02(c)
006	97.6 MMBtu/hr Boiler	PM	1.0 lb/hr	335-3-4-.03(1)
006	97.6 MMBtu/hr Boiler	NO <sub>x</sub>	N/A	N/A
006	97.6 MMBtu/hr Boiler	CO	N/A	N/A
006	97.6 MMBtu/hr Boiler	VOC	N/A	N/A

## 97.6 MMBtu/hr Boiler Natural Gas with Low NO<sub>x</sub> Burners and with No.2 Fuel Oil Backup Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source 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
2. This source is subject to the applicable requirements of 40 CFR Part 60 Subpart A - General Provisions.	ADEM Admin. Code r. 335-3-10-.02(1)
3. This source is subject to the applicable requirements of 40 CFR Part 60, Subpart D <sub>c</sub> - New Source Performance Standards for Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.	ADEM Admin. Code r. 335-3-10-.02(2)(c)
4. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, Visible Emissions.	ADEM Admin. Code r. 335-3-4-.01
5. This source is subject to synthetic minor PSD emission limitations.	ADEM Admin. Code r. 335-3-14-.04
<i>Emission Standards</i>	
1. Visible emissions from this source shall not exceed an opacity of 20% except one 6-minute period every 60 minutes not to exceed 27% when firing No. 2 fuel oil.	ADEM Admin. Code r. 335-3-10-.02(2)
2. This source shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%), when firing natural gas.	ADEM Admin. Code r. 335-3-4-.01
3. This source is limited to firing natural gas or No. 2 fuel oil with a sulfur content of less than 0.5 percent.	ADEM Admin. Code r. 335-3-14-.04
4. This source is limited to 855 MMSCF of natural gas and 71,604 gallons of No. 2 fuel oil in any consecutive twelve month period.	ADEM Admin. Code r. 335-3-14-.04
5. The sulfur dioxide (SO <sub>2</sub> ) emission rate from the 97.6 MMBtu/hr boiler (006) shall not exceed 0.5 lb/MMBtu of heat input.	ADEM Admin. Code r. 335-3-10-.02(2)
6. The particulate matter (PM) emission rate from the 97.6 MMBtu/hr boiler (006) shall not exceed the amount determined by the equation: $E = 1.38 (H)^{0.44}$ Where: E = Emissions in pound per hour H = heat input in millions of Btu/hr	ADEM Admin. Code r. 335-3-4-.03(1)
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the opacity requirement shall be determined by EPA Reference Method 9 in Appendix A of 40 CFR Part 60.	ADEM Admin. Code r. 335-3-10-.03(1)

## 97.6 MMBtu/hr Boiler Natural Gas with Low NO<sub>x</sub> Burners and with No.2 Fuel Oil Backup Provisos

Federally Enforceable Provisos	Regulations
<i>Emission Monitoring</i>	
1. As an indicator of compliance with the opacity requirement, visible emissions shall be monitored on a weekly basis. If visible emissions are observed, a Visual Determination of Opacity shall be performed using EPA Method 9 or corrective action shall be taken withing one (1) hour of discovery.	ADEM Admin. Code r. 334-3-4-.01
2. Vendor certification of fuel oil sulfur content shall be obtained for each shipment received.	ADEM Admin. Code r. 335-3-10-.02(2)
<i>Recordkeeping and Reporting Requirements</i>	
1. Records of daily fuel usage shall be kept in a form suitable for inspection for a period of at least five (5) years.	ADEM Admin. Code r. 335-3-10-.02(2)
2. Records of vendor certification of sulfur content of NO. 2 fuel oil shall be kept in a permanent form suitable for inspection for a period of at least five (5) years.	ADEM Admin. Code r. 335-3-10-.02(2)
3. Records shall be kept of all visible emission observations required under Emission Monitoring of this section and of any corrective action taken. These records shall be kept in a form suitable for inspection for a period of at least five (5) years.	ADEM Admin. Code r. 335-3-14-.04

# 2,000 Gallon Gasoline Storage Tank

## Informational Summary

**Description:** 2,000 Gallon Gasoline Storage Tank

**Emission Unit:** 009

**Operating Schedule:** 8,760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

**40 CFR Part 63, Subpart CCCCCC**

Pollutants Emitted

<b>Emission Point No.</b>	<b>Point Description</b>	<b>Pollutant</b>	<b>Emission Limit</b>	<b>Standard</b>
009	2,000 Gallon Gasoline Storage Tank	HAP	N/A	40 CFR Part 63, Subpart CCCCCC
009	2,000 Gallon Gasoline Storage Tank	VOC	N/A	335-3-6-.03

## 2,000 Gallon Gasoline Storage Tank Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source 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
2. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Categories: Gasoline Dispensing Facilities.	40 CFR Part 63, Subpart CCCCCC
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-6-.03, Loading and Storage of VOC.	ADEM Admin. Code r. 335-3-6-.03
<i>Emission Standards</i>	
1. The monthly throughput of gasoline for the 2,000 gallon gasoline storage tank (009) shall be limited to 10,000 gallons or less.	ADEM Admin. Code r. 335-3-6-.03
<i>Compliance and Performance Test Methods and Procedures</i>	
1. This source is subject to no additional specific requirements than those listed in the General Permit Provisos.	N/A
<i>Emission Monitoring</i>	
1. This source is subject to no additional specific requirements than those listed in the General Permit Provisos.	N/A
<i>Recordkeeping and Reporting Requirements</i>	
1. Records of monthly gasoline throughput shall be kept in permanent form suitable for inspection for at least five (5) years.	40 CFR Part 63, Subpart CCCCCC

# Diesel Fired Engine for Water Pump

## Informational Summary

**Description:** Diesel Fired Engine for Water Pump

**Emission Unit:** 010

**Operating Schedule:** 8,760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

**40 CFR Part 63, Subpart ZZZZ**

Pollutants Emitted

<b>Emission Point No.</b>	<b>Point Description</b>	<b>Pollutant</b>	<b>Emission Limit</b>	<b>Standard</b>
010	Diesel Fired Engine for Water Pump	PM	Opacity is limited to 20% in any 6 minute period	335-3-4-.01
010	Diesel Fired Engine for Water Pump	HAPs	N/A	40 CFR 63, Subpart ZZZZ

## Diesel Fired Engine for Water Pump Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source 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
2. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.	ADEM Admin. Code r. 335-3-11-.06(103)
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, Visible Emissions.	ADEM Admin. Code r. 335-3-4-.01
<i>Emission Standards</i>	
1. This source shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code r. 335-3-4-.01
2. This source shall adhere to the parameters set forth in Table 2d of 40 CFR Part 63, Subpart ZZZZ.	ADEM Admin. Code r. 335-3-11-.06(103)
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Pursuant to 63.6625(e), this source shall be operated and maintained in accordance with the manufacturers emission-related written instructions, if available, or a maintenance plan shall be developed which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	ADEM Admin. Code r. 335-3-11-.06(103)
2. Pursuant to 40 CFR 63.6603, the facility shall comply with the requirements listed in Table 2d, Item 1 of 40 CFR Part 63, Subpart ZZZZ.	ADEM Admin. Code r. 335-3-10-.03(1)
3. Compliance with the opacity requirement shall be determined by EPA Reference Method 9 in Appendix A of 40 CFR Part 60.	ADEM Admin. Code r. 335-3-4-.01

## Diesel Fired Engine for Water Pump Provisos

### Federally Enforceable Provisos

### Regulations

#### *Emission Monitoring*

1. As an indicator of compliance with the opacity requirement, visible emissions shall be monitored on a weekly basis. If visible emissions are observed, a Visual Determination of Opacity shall be performed using EPA Method 9 or corrective action shall be taken withing one (1) hour of discovery.

ADEM Admin. Code r.  
335-3-4-.01

#### *Recordkeeping and Reporting Requirements*

1. Records shall be kept of all maintenance conducted on this unit. These records shall be kept in permanent form suitable for inspection for a period of at least five (5) years.
2. Records shall be kept of the date, time, duration, and purpose of operation each time the unit is operated. These records shall be kept in permanent form suitable for inspection for a period of at least five (5) years.
3. Records shall be kept of any visible emission observations required under Emission Monitoring of this section and of any corrective action taken. These records shall be kept in permanent form suitable for inspection for a period of at least five (5) years.

ADEM Admin. Code r.  
335-3-11-.06(103)

ADEM Admin. Code r.  
335-3-11-.06(103)

ADEM Admin. Code r.  
335-3-4-.01

# 16.5 MMBtu/hr Natural Gas Fired Boiler

## Informational Summary

**Description:** 16.5 MMBtu/hr Boiler

**Emission Unit:** 011

**Operating Schedule:** 8,760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

**40 CFR Part 60, Subpart D<sub>c</sub>**

Pollutants Emitted

<b>Emission Point No.</b>	<b>Point Description</b>	<b>Pollutant</b>	<b>Emission Limit</b>	<b>Standard</b>
011	16.5 MMBtu/hr Boiler	SO <sub>2</sub>	0.01 lb/hr	335-3-5-.01(1)
011	16.5 MMBtu/hr Boiler	Visible Emissions	Opacity is limited to 20% in any 6 minute period	335-3-4-.01
011	16.5 MMBtu/hr Boiler	PM	0.20 lb/hr	335-3-4-.03(1)
011	16.5 MMBtu/hr Boiler	NO <sub>x</sub>	N/A	N/A
011	16.5 MMBtu/hr Boiler	CO	N/A	N/A
011	16.5 MMBtu/hr Boiler	VOC	N/A	N/A

## 16.5 MMBtu/hr Natural Gas Fired Boiler Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source 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
2. This source is subject to the applicable requirements of 40 CFR part 60, Subpart A – New Source Performance Standards for General Provisions.	ADEM Admin. Code r. 335-3-10-.02(1)
3. This source is subject to the applicable requirements of 40 CFR Part 60, Subpart D <sub>c</sub> – New Source Performance Standards for Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.	ADEM Admin. Code r. 335-3-10-.02(2)(c)
4. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, Visible Emissions.	ADEM Admin. Code r. 335-3-4-.01
<i>Emission Standards</i>	
1. This source shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average. During one six (6) minute period during any sixty (60) minute period, this unit may discharge opacity not to exceed forty percent (40%).	ADEM Admin. Code r. 335-3-4-.01
2. This source is limited to firing natural gas only.	ADEM Admin. Code r. 335-3-14-.04
3. The sulfur dioxide (SO <sub>2</sub> ) emission rate from the 16.5 MMBtu/hr boiler (011) shall not exceed 0.01 lb/hr.	ADEM Admin. Code r. 335-3-5-.01(1)
4. The particulate matter emission rate from the 16.5 MMBtu/hr boiler (011) shall not exceed 0.20 lb/hr.	ADEM Admin. Code r. 335-3-4-.03(1)
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the opacity requirement shall be determined by EPA Reference Method 9 in Appendix A of 40 CFR Part 60.	ADEM Admin. Code r. 335-3-10-.03(1)
<i>Emission Monitoring</i>	
1. As an indicator of compliance with the opacity requirement, visible emissions shall be monitored on a weekly basis. If visible emissions are observed, a Visual Determination of Opacity shall be performed using EPA Method 9 or corrective action shall be taken withing one (1) hour of discovery.	ADEM Admin. Code r. 335-3-4-.01

## 16.5 MMBtu/hr Natural Gas Fired Boiler Provisos

### Federally Enforceable Provisos

### Regulations

#### *Recordkeeping and Reporting Requirements*

- |  |                                     |
|--|-------------------------------------|
| 1. Records of monthly fuel usage shall be kept in a form suitable for inspection for a period of at least five (5) years.  | ADEM Admin. Code r. 335-3-10-.02(2) |
| 2. Records shall be kept of any visual emission observations required under Emission Monitoring of this section and of any corrective action taken. These records shall be kept in a form suitable for inspection for a period of at least five (5) years. | ADEM Admin. Code r. 335-3-4-.01     |

# 1495 HP Diesel Fired Emergency Generator

## Informational Summary

**Description:** 1495 HP Diesel Fired Emergency Generator

**Emission Unit:** 012

**Operating Schedule:** 8,760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

**40 CFR Part 60, Subpart IIII**

**40 CFR Part 63, Subpart ZZZZ**

Pollutants Emitted

<b>Emission Point No.</b>	<b>Point Description</b>	<b>Pollutant</b>	<b>Emission Limit</b>	<b>Standard</b>
012	1495 HP Diesel Fired Emergency Generator	HC	1.3 g/kW-hr	Table 1, 40 CFR Part 60, Subpart IIII
012	1495 HP Diesel Fired Emergency Generator	NO <sub>x</sub>	9.2 g/kW-hr	Table 1, 40 CFR Part 60, Subpart IIII
012	1495 HP Diesel Fired Emergency Generator	CO	11.4 g/kW-hr	Table 1, 40 CFR Part 60, Subpart IIII
012	1495 HP Diesel Fired Emergency Generator	PM	0.54 g/kW-hr	Table 1, 40 CFR Part 60, Subpart IIII
012	1495 HP Diesel Fired Emergency Generator	Visible Emissions	Opacity is limited to 20% in any 6 minute period	335-3-10-.02(c)

## 1495 HP Diesel Fired Emergency Generator Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source 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
2. This source is subject to the applicable requirements of 40 CFR Part 60, Subpart IIII – New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines.	ADEM Admin. Code r. 335-3-11-.06(103)
3. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines; however, no further requirements apply to Subpart ZZZZ since compliance with the provisos established in Subpart IIII shall constitute compliance with this requirement.	ADEM Admin. Code r. 335-3-10-.02(87)
4. This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, Visible Emissions.	ADEM Admin. Code r. 335-3-4-.01
<i>Emission Standards</i>	
1. This source shall adhere to the emission standards set forth in Table 1 of 40 CFR Part 60, Subpart III.	ADEM Admin. Code r. 35-3-10-.02(87)
2. This source shall not operate more than 480 hours per year.	ADEM Admin. Code r. 335-3-10-.02(87)
3. This source shall be equipped with a non-resettable hour meter prior to startup of the engine as per 40 CFR 60.4209(a).	ADEM Admin. Code r. 335-3-10-.02(87)
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Pursuant to 40 CFR 60.4211(b), the facility shall demonstrate compliance with the emission standards of Subpart IIII according to one of the methods specified in paragraphs (b)(1) through (b)(5).	ADEM Admin. Code r. 335-3-10-.02(87)
2. Pursuant to 40 CFR 60.4207(b), each unit may only fire diesel fuel with a sulfur content not to exceed 15 ppm of sulfur per gallon.	ADEM Admin. Code r. 335-3-10-.02(87)
3. Pursuant to 40 CFR 60.4211(f), Emergency Generator (012) may be operated for the purpose of maintenance checks and readiness testing. Maintenance checks and readiness testing of such units are limited to 100 hours per year. Emergency Generator (012) may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. Any operation other than emergency operation, maintenance, testing, and operation in non-emergency situations for 50 hours per year, as permitted in this section, is prohibited.	ADEM Admin. Code r. 335-3-10-.02(87)

## 1495 HP Diesel Fired Emergency Generator Provisos

Federally Enforceable Provisos	Regulations
<i>Emission Monitoring</i>	
<p>1. Pursuant to 40 CFR 60.4211(a), the facility shall operate and maintain Emergency Generator (012) and control device according to the manufacturer’s written instructions or procedures. Only changes to those setting permitted by the manufacturer are allowed to be made.</p>	<p>ADEM Admin. Code r. 335-3-10-.02(87)</p>
<p>2. Visible emissions shall be monitored on a weekly basis by someone familiar with Method 9 of 40 CFR Part 60 Appendix A. If visible emissions are observed, a Visual Determination of Opacity shall be performed using EPA Method 9 or corrective action shall be taken withing one (1) hour of discovery. If the Visual Determination of Opacity confirms that the source is discharging particulate emissions above the emission limits specified in General Proso 29 of this permit, corrective action shall be taken within one (1) hour to reduce particulate emissions below limits specified in General Proviso 29 of this permit.</p>	<p>ADEM Admin. Code r. 335-3-4-.01</p>
<i>Recordkeeping and Reporting Requirements</i>	
<p>1. Records shall be kept of any visual emission observations required under Emission Monitoring of this section and of any corrective action taken. These records shall be kept in a form suitable for inspection for a period of at least five (5) years.</p>	<p>ADEM Admin. Code r. 335-3-4-.01</p>
<p>2. Records shall be kept of the operation of the engines in any emergency and non-emergency service, which is recorded through the non-resettable hour meter. The time of operation of the engine and the reason the engines were in operation during that time shall be recorded. These records shall be kept in a form suitable for inspection for a period of at least five (5) years.</p>	<p>ADEM Admin. Code r. 335-3-10-.02(87)</p>

**APPENDIX A  
(CAM)**

**Compliance Assurance Monitoring Requirements**

**CAM Plan for Nitric Acid Plant No. 2 – Selective Catalytic Reduction Unit (Emission Point 003)**

	Indicator 1	Indicator 2
I. Indicator	NOx hourly emissions	N/A
Measurement Approach	Continuously monitor NOx emissions	N/A
II. Indicator Range	1.0 lb NOx/ton 100% nitric acid produced (3-hour rolling average basis, excluding SSM)	N/A
III. Performance Criteria		
Representative Data	Emission measurements being made at the emission point	N/A
Verification of Operation Status	CEMS is in place and operating, verification not applicable	N/A
QA/QC Practices and Criteria	Calibration of the CEMS will be performed in accordance with the QA/QC Plan	N/A
Monitoring Frequency	Continuously monitor NOx emissions using a CEMS	N/A
Data collection Procedures	CEMS device	N/A
Averaging Period	3-hour average basis	N/A

**CAM Plan for Ammonium Nitrate Plant No. 1 Neutralizer - Scrubber (Emission Point 004)**

	Indicator 1	Indicator 2
I. Indicator	Acidity of neutralizer solution	N/A
Measurement Approach	Neutralizer solution will be monitored every 2 hours during operation to maintain the acidity	N/A
II. Indicator Range	-0.10 (acidic) to +0.30 (basic)	N/A
III. Performance Criteria		
Representative Data	Measurements being made at the emission point	N/A
Verification of Operation Status	N/A	N/A
QA/QC Practices and Criteria	Lab QA/QC procedures will be followed	N/A
Monitoring Frequency	The acidity will be measured and recorded every 2 hours during operation	N/A
Data collection Procedures	A sample of the neutralizer solution will be collected manually, and the acidity of the solution will be tested. The measured acidity will be recorded manually in a log book.	N/A
Averaging Period	N/A	N/A