



MAJOR SOURCE OPERATING PERMIT

PERMITTEE: U. S. AMINES (BUCKS) LLC

FACILITY NAME: BUCKS, ALABAMA FACILITY

FACILITY/PERMIT NO.: 503-5010

LOCATION: BUCKS, MOBILE 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 + 5 YR

Alabama Department of Environmental Management

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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)

5.	<u>Termination for Cause</u>	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.	Rule 335-3-16-.05(h)
6.	<u>Property Rights</u>	The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	Rule 335-3-16-.05(i)
7.	<u>Submission of Information</u>	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.	Rule 335-3-16-.05(j)
8.	<u>Economic Incentives, Marketable Permits, and Emissions Trading</u>	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.	Rule 335-3-16-.05(k)
9.	<u>Certification of Truth, Accuracy, and Completeness:</u>	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 except as provided in Rule 335-3-16-.04(9)(b). 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.	Rule 335-3-16-.07(a)
10.	<u>Inspection and Entry</u>	<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"> <li data-bbox="235 1705 1079 1801">(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; <li data-bbox="235 1837 1079 1900">(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; 	Rule 335-3-16-.07(b)

- (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 April 20th 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) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(3) (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;
- (b) The compliance certification shall be submitted to:

Alabama Department of Environmental Management
Air Division
P.O. Box 301463
Montgomery, AL 36130-1463

and to:

Air and EPCRA Enforcement Branch
EPA Region IV
61 Forsyth Street, SW
Atlanta, GA 30303

13. Reopening for Cause

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

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

- (a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.
- (b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.
- (c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
- (d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

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 for scheduled maintenance for a period greater than one (1) hour, the intent to shutdown shall be reported to the Department at

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

least 24 hours prior to the planned shutdown, unless accompanied by the immediate shutdown of the emission source. 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;
 - (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 shall 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

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.

Rule 335-3-4-.02

- (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.

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;
 - (5) The results of all analyses;
 - (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.

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

21. Reporting Requirements

- (a) Reports to the Department 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 Rule 335-3-16-.04(9).
- (b) Deviations from permit requirements shall be reported within 48 hours or 2 working day 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.
- (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).
- (c) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.
- (d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.

Rule 335-3-1-.04

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.

Rule 335-3-1-.04

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.

23. Payment of Emission Fees

Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.

Rule 335-1-7-.04

24. Other Reporting and Testing Requirements

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.

Rule 335-3-1-.04(1)

25. Title VI Requirements (Refrigerants)

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.

335-3-16-.05(a)

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.

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.

26. Chemical Accidental Prevention Provisions

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:

40 CFR Part 68

- (a) The owner or operator shall comply with the provisions in 40 CFR Part 68.
- (b) The owner or operator shall submit one of the following:
 - (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,
 - (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.

27. Display of Permit

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 be made readily available for inspection by any or all persons who may request to see it.

Rule 335-3-14-.01(1)(d)

28. Circumvention

No person shall cause or permit the installation or use of any device or any means which, without resulting in 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.

Rule 335-3-1-.10

29. Visible Emissions

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.

Rule 335-3-4-.01(1)

30. Fuel-Burning Equipment

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.

Rule 335-3-4-.03

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.

Rule 335-3-5-.01

31. Process Industries – General

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.

Rule 335-3-4-.04

32. Averaging Time for Emission Limits

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.

Rule 335-3-1-.05

33. Permit Shield

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 7.3 of the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in this section are not applicable to this source.

Rule 335-3-16-.10

Summary Page for Aliphatic Amines #1 Plant with Flare

Permit Unit No. 001
Company Description: Amines 1
Emission Point(s): Amines 1 Flare (EP A1-01)
Type and quantity of Fuel Used: N/A
Operating Schedule 8760 hours/year

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

40 CFR Part 63, Subpart VVVVVV

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
A1-01	Amines 1 Flare	Opacity	< 20%	335-3-4-.01

Provisos for Aliphatic Amines #1 Plant with Flare

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This unit is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, Major Source Operating Permits.	ADEM Admin. Code 335-3-16-.03
2. This unit is subject to the state opacity emission rate limits.	ADEM Admin. Code 335-3-4-.01
3. This unit is subject to 40 CFR Part 63, Subpart VVVVVV – National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources.	ADEM Admin. Code 335-3-11-.06(151)
<i>Emission Standards</i>	
1. The vent header shall be vented to the flare.	ADEM Admin. Code 335-3-14.04
2. The opacity of the exhaust plume from EP A1-01 shall not exceed 20% for one 6-minute average in any 60-minute period nor shall the opacity exceed 40% for any 6-minute period.	ADEM Admin. Code 335-3-4-.01(1)
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Visual Determinations of Opacity shall be measured in accordance with EPA Reference Method 9, as set forth in Rule 335-3-10, Appendix A or an alternate method as approved by the Director.	ADEM Admin. Code 335-3-10-.02(1)
<i>Emission Monitoring</i>	
1. To ensure that the flare is operating, the presence of the flame shall be monitored on a continuous basis.	ADEM Admin. Code 335-3-16-.05(c)
2. The facility shall perform quarterly inspection of process vessels and equipment in metal HAP service in accordance with the standards found in 40 CFR Part 63.11495(a)(3).	ADEM Admin. Code 335-3-11-.06(151)
<i>Recordkeeping and Reporting Requirements</i>	
1. A record of periods when the flame of the flare is out while this process is operating shall be kept in a permanent form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code 335-3-16-.05
2. The facility shall maintain records of all process vessel inspection in accordance with the procedures found in 40 CFR Part 63, Subpart VVVVVV.	ADEM Admin. Code 335-3-11-.06(151)

Summary Page for Amines #2 Plant with Smokeless Flare

Permit Unit No. 002

Company Description: Amines 2

Emission Point(s): Amines 2 Flare (EP A2-01)

Type and quantity of Fuel Used: N/A

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs: **40 CFR Part 60 Subpart VV, 40 CFR Part 60, Subpart RRR, 40 CFR Part 63, Subpart VVVVVV**

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
A2-01	Amines 2 Flare	Opacity	<20%	335-3-4-.01
A2-01	Amines 2 Flare	Visible Emissions	None, except for 5 minutes in any 120-minute period	NSPS Subpart RRR
Fugitive	Equipment leaks	VOC	LDAR Program	NSPS Subpart VV

Provisos for Amines #2 Plant with Smokeless Flare

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This unit is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, Major Source Operating Permits.	ADEM Admin. Code 335-3-16-.03
2. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 60, Subpart A.	ADEM Admin. Code 335-3-10-.02(1)
3. This source is subject to the Federal New Source Performance Standards for Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry as listed in 40 CFR Part 60, Subpart VV.	ADEM Admin. Code 335-3-10-.02(48)
4. The Acetone reactor is subject to the Federal New Source Performance Standards for Volatile Organic Compound Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes found in 40 CFR Part 60, Subpart RRR.	ADEM Admin. Code 335-3-10-.02(70)
5. This unit is subject to the opacity emission rate limits.	ADEM Admin. Code 335-3-4-.01
6. This unit is subject to 40 CFR Part 63, Subpart VVVVVV – National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources.	ADEM Admin. Code 335-3-11-.06(151)
<i>Emission Standards</i>	
1. The vent header shall be vented to the flare.	ADEM Admin. Code 335-3-14-.04
2. Emissions from the Acetone reactor shall be vented to the flare anytime the unit is in operation.	ADEM Admin. Code 335-3-10-.02(70)
3. This unit is subject to the leak detection and repair requirements of NSPS Subpart VV as found in 40 CFR 60.482.	ADEM Admin. Code 335-3-10-.02(48)
4. The opacity of the exhaust plume from EP A2-01 shall not exceed 20% for one 6-minute average in any 60-minute period nor shall the opacity exceed 40% for any 6-minute period.	ADEM Admin. Code 335-3-4-.01
5. There should be no visible emissions from EP A2-01 except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.	ADEM Admin. Code 335-3-10-.02(1)

Provisos for Amines #2 Plant with Smokeless Flare

Federally Enforceable Provisos	Regulations
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Leak detection shall be performed according to EPA Reference Method 21.	ADEM Admin. Code 335-3-10-.02(48)
2. Visual Determinations of Opacity shall be measured in accordance with EPA Reference Method 9, as set forth in Rule 335-3-10, Appendix A or an alternate method as approved by the Director.	ADEM Admin. Code 335-3-10-.02(1)
3. An initial compliance test shall be done according to Method 22, as set forth in Rule 335-3-10, Appendix A, in order to determine compliance with §60.18(f).	ADEM Admin. Code 335-3-10-.02(70)
4. Visible Emissions Determinations shall be measured in accordance with EPA Reference Method 22, as set forth in Rule 335-3-10, Appendix A or an alternate method as approved by the Director.	ADEM Admin. Code 335-3-10-.02(70)
<i>Emissions Monitoring</i>	
1. Periodic monitoring for equipment subject to NSPS Subpart VV shall be monitored according to the standards found in §60.482.	ADEM Admin. Code 335-3-10-.02(48)
2. To ensure that the flare is operating, the presence of a flame shall be monitored on a continuous basis.	ADEM Admin. Code 335-3-10-.02(70)
3. The facility shall perform quarterly inspection of process vessels and equipment in metal HAP service in accordance with the standards found in 40 CFR Part 63.11495(a)(3).	ADEM Admin. Code 335-3-11-.06(151)
<i>Recordkeeping and Reporting</i>	
1. Recordkeeping and Reporting for equipment subject to NSPS Subpart VV shall be maintained according to the standards found in §60.486 and §60.487.	ADEM Admin. Code 335-3-10-.02(48)
2. All continuous records monitoring the presence of the flare pilot flame shall be kept in a permanent form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code 335-3-10-.02(70)
3. A record of the periods when the flare pilot flame is out while the process is operating shall be kept in a permanent form suitable for inspection for a period of at least 5 years.	ADEM Admin. Code 335-3-10-.02(70)
4. The facility shall maintain records of all process vessel inspection in accordance with the procedures found in 40 CFR Part 63, Subpart VVVVVV.	ADEM Admin. Code 335-3-11-.06(151)

Summary Page for 120.46 MMBTU/HR Natural Gas Fired Boiler

Permit Unit Nos. 003
 Company Description: 400 psi Boiler with 120.46 MMBTU/hr Natural Gas Heat Input
 Emission Point(s): 120.46 MMBTU/hr Boiler (BO-02)
 Type and quantity of Fuel Used: Natural Gas
 Operating Schedule: 8760 hours/year
 This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs: **N/A**

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Regulation
BO-02	120.46 MMBTU/hr Boiler	PM	0.17 lb/MMBTU	335-3-4-.03(1)
BO-02	120.46 MMBTU/hr Boiler	SO ₂	1.8 lb/MMBTU	335-3-5-.01(1)(a)
BO-02	120.46 MMBTU/hr Boiler	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60 minute period and no 6-minute average opacity of greater than 40%.	335-3-4-.01

Provisos for 120.46 MMBTU/HR Natural Gas Fired Boiler

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 335-3-16-.03
2. This source is subject to the particulate emission rate limits for fuel burning equipment.	ADEM Admin. Code 335-3-4-.03(1)
3. This source is subject to the sulfur dioxide emission rate limits for fuel combustion.	ADEM Admin. Code 335-3-5-.01(1)(a)
4. This source is subject to the opacity emission rate limits.	ADEM Admin. Code 335-3-4-.01
<i>Emission Standards</i>	
1. Only natural gas shall be burned in the 120 MMBTU/hr Boiler (BO-02).	ADEM Admin. Code 335-3-4-.03
2. Opacity shall not exceed twenty percent (20%) as determined by six-minute average. During one six-minute period in any sixty minute period, this unit may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent (40%).	ADEM Admin. Code 335-3-4-.01
3. The Sulfur Dioxide (SO ₂) emission rate from the boiler shall not exceed 1.8 lb/MMBTU.	ADEM Admin. Code 335-3-5-.01(1)(a)
4. The Particulate Matter (PM) emission rate from the boiler shall not exceed 0.17 lb/MMBTU.	ADEM Admin. Code 335-3-4-.03(1)
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the opacity limits of this unit shall be determined by Method 9 in Appendix A of 40 CFR 60 (7-1-00 edition).	ADEM Admin. Code 335-3-1-.05
2. Compliance with the particulate emission rates of this unit shall be determined by EPA Reference Method 5 in Appendix A of 40 CFR 60 (7-1-00 edition). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code 335-3-1-.05
3. Compliance with the sulfur dioxide emission rates of this unit shall be determined by EPA reference Method 6 or 6C in Appendix A of 40 CFR 60 (7-1-00 edition). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code 335-3-1-.05

Provisos for 120.46 MMBTU/HR Natural Gas Fired Boiler

Federally Enforceable Provisos

Regulations

Emission Monitoring

- | | |
|--|-----|
| 1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos. | N/A |
|--|-----|

Recordkeeping and Reporting Requirements

- | | |
|--|-----|
| 1. This source is subject to no additional specific requirements other than those listed in the General Permit Provisos. | N/A |
|--|-----|

Summary Page for Three (3) Emergency Diesel Powered Firewater Pumps

Permit Unit Nos. 005

Company Description: Three Emergency Diesel Firewater Pumps

Emission Point(s):

Type and quantity of Fuel Used: Diesel

Operating Schedule: 8760 hrs/yr

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs: **40 CFR Part 63, Subpart ZZZZ**

Emission Limitations

Emission Point #	Point Description	Pollutant	Control Device	Regulation
	Three (3) Emergency Diesel Powered Firewater Pumps	Opacity	Shall not exceed 20% based on 6-minute average, except one 6-minute period in every 60-minute period it shall not exceed 40%	335-3-4-.01

Provisos for Three (3) Emergency Diesel Powered Firewater Pumps

Federally Enforceable Provisos

Regulations

Applicability

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. These units are subject to the opacity emission rate limits. | <p>ADEM Admin. Code
335-3-4-.01</p> |
| <ol style="list-style-type: none"> 2. These units are subject to the applicable requirements of ADEM Admin. Code R. 335-3-11-.06 (86), “National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Hazardous Air Pollutant (HAP) Emissions from Stationary Reciprocating Internal Combustion Engines (ZZZZ) as an “Existing Source”. | <p>ADEM Admin. Code
335-3-11-.06(103)</p> |

Emission Standards

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. These units shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average, except during one six (6) minute period in any sixty (60) minute period, these units may discharge into the atmosphere opacity not greater than forty percent (40%). | <p>ADEM Admin. Code
335-3-4-.01</p> |
| <ol style="list-style-type: none"> 2. The Emergency stationary CI RICE unit(s) shall: a) Change oil and filter every 500 hours of operation or annually, whichever comes first; b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. 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>ADEM Admin. Code
335-3-11-.06(103)</p> |

Compliance and Performance Test Methods and Procedures

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Method 9 as defined in 40 CFR 60, Appendix A shall be used in the determination of the opacity of the stack emissions. | <p>ADEM Admin. Code
335-3-1-.05</p> |
|---|---|

Emission Monitoring

1. None

**Provisos for Three (3) Emergency Diesel Powered Firewater Pumps
Federally Enforceable Provisos**

Federally Enforceable Provisos	Regulations
<i>Recordkeeping and Reporting Requirements</i>	
<p>1. Records of engine usage must be kept in a permanent form suitable for inspection. These records should record if the usage was for emergency, maintenance checks, readiness checks, or other usage. The records shall be retained for at least five years from the date of generation and available upon request.</p>	<p>ADEM Admin. Code 335-3-11-.06(103)</p>
<p>2. The following federal requirements apply to these units.</p>	<p>ADEM Admin. Code 335-3-11-.06(103)</p>
<p>(f) <i>Requirements for emergency stationary RICE.</i> (1) If you own or operate an existing emergency stationary RICE located at an area source of HAP emissions, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1)(i) through (iii) of this section. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1)(i) through (iii) of this section, is prohibited.</p>	
<p>(i) <i>There is no time limit on the use of emergency stationary RICE in emergency situations.</i></p>	
<p>(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.</p>	
<p>(iii) You may operate your emergency stationary RICE 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. 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; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power.</p>	

Summary Page for TA-1536 240,500 Gallon Isopropanol Storage Tank with Scrubber

Permit Unit Nos. 022

Company Description: 240,500 Gallon Isopropanol Storage Tank with Scrubber

Emission Point(s):

Type and quantity of Fuel Used:

Operating Schedule: 8760 hrs/yr

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs: **40 CFR Part 60, Subpart Kb, 40 CFR Part 60, Subpart VV**

Emission Limitations

Emission Point #	Point Description	Pollutant	Control Device	Regulation
X	TA-1536 Scrubber Vent	VOC	95% DRE	335-3-4-.01

**Storage Tank TA-1536
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, Major Source Operating Permits.	ADEM Admin. Code R. 335-3-16
2. Tank TA-1536 is subject to the requirements of the Federal New Source Performance Standards (NSPS) for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984 as listed in 40 CFR Part 60, Subpart Kb.	ADEM Admin Code R. 335-3-10-.02(9)(b)
3. Tank TA-1536 is subject to the requirements of the General Provisions as indicated in 40 CFR Part 60, Subpart A, unless otherwise stated in 40 CFR Part 60, Subpart Kb.	ADEM Admin Code R. 335-3-10-.02(1)
<i>Emission Standards</i>	
1. Storage tank TA-1536 shall be vented to the Scrubber for control.	ADEM Admin Code R. 335-3-10-.02(9)(b)
2. The standards for the leak detection and repair program of 60.482 – 60.487 of Subpart VV of the NSPS, shall be met for all HAP and non-HAP VOC Components as referenced in 60.489.	ADEM Admin. Code R. 335-3-10-.02(48)
3. The Destruction Removal Efficiency (DRE) of the Scrubber shall be at least 95.0% for Volatile Organic Compounds (VOCs).	ADEM Admin. Code R. 335-3-10-.02(9)(b)
4. Storage tank TA-1536 shall be routed to the closed vent system of the Scrubber as specified in 40 CFR 60.112b(a).	ADEM Admin Code R. 335-3-10-.02(9)(b)
5. Tank TA-1536 shall meet the standards found in 40 CFR 60.112b(a)(3).	ADEM Admin Code R. 335-3-10-.02(9)(b)

**Storage Tank TA-1536
Provisos**

Federally Enforceable Provisos	Regulations
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the VOC emission rate for the Scrubber shall be determined by Reference Method 18 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03(1)
2. The test methods and procedures for the leak detection and repair program as listed in 40 CFR 60.485 of Subpart VV of the NSPS.	ADEM Admin. Code R. 335-3-10-.02(48)
<i>Emission Monitoring</i>	
1. The leak detection monitoring requirements of 40 CFR 60.482 – 60.487 of Subpart VV of the NSPS shall be followed for all subject equipment.	ADEM Admin. Code R. 335-3-10-.02(48) & ADEM Admin Code R. 335-3-14-.04
2. A device capable of continuously monitoring scrubber flowrate shall be installed, calibrated, maintained, and properly operated in association with the Scrubber as required in 60.112b(a)(3) of Subpart Kb of the NSPS.	ADEM Admin Code R. 335-3-10-.02(9)(b)
<i>Recordkeeping and Reporting Requirements</i>	
1. Storage tank TA-1536 shall meet all recordkeeping and reporting requirements found in 60.115b of Subpart Kb of the NSPS as applicable.	ADEM Admin Code R. 335-3-10-.02(9)(b)
2. Storage tank TA-1536 shall meet the recordkeeping provisions of 60.486 of Subpart VV of the NSPS as applicable.	ADEM Admin Code R. 335-3-10-.02(48)
3. Storage tank TA-1536 shall meet the reporting provisions of 60.487 of Subpart VV of the NSPS as applicable.	ADEM Admin Code R. 335-3-10-.02(48)
4. The facility shall maintain records of the hourly and daily average scrubber flowrates. The records, which may be in the form of a log or a checklist, shall be kept up-to-date, readily accessible, and in a form suitable for inspection for five years.	ADEM Admin Code R. 335-3-10-.02(9)(b)