



MAJOR SOURCE OPERATING PERMIT

PERMITTEE: FMC CORPORATION
FACILITY NAME: MOBILE MANUFACTURING CENTER
FACILITY/PERMIT NO.: 503-5001
LOCATION: AXIS, 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: October 12, 2026
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TABLE OF CONTENTS

<u>GENERAL PERMIT PROVISOS</u>	0-1
<u>SUMMARY PAGE FOR A BUSINESS UNIT (ABU)</u>	1-1
<u>PROVISOS FOR A BUSINESS UNIT</u>	2-2
<u>Applicability</u>	1-2
<u>Emission Standards</u>	1-2
<u>Compliance and Performance Test Methods and Procedures</u>	1-3
<u>Emission Monitoring</u>	1-4
<u>Recordkeeping and Reporting Requirements</u>	1-5
<u>SUMMARY PAGE FOR B BUSINESS UNIT (BBU)</u>	2-1
<u>PROVISOS FOR B BUSINESS UNIT</u>	2-2
<u>Applicability</u>	2-2
<u>Emission Standards</u>	2-2
<u>Compliance and Performance Test Methods and Procedures</u>	2-4
<u>Emission Monitoring</u>	2-5
<u>Recordkeeping and Reporting Requirements</u>	2-7
<u>SUMMARY PAGE FOR PAI GROUP 1 STORAGE VESSELS</u>	3-1
<u>PROVISOS FOR PAI GROUP 1 STORAGE VESSELS</u>	3-3
<u>Applicability</u>	3-3
<u>Emission Standards</u>	3-3
<u>Compliance and Performance Test Methods and Procedures</u>	3-4
<u>Emission Monitoring</u>	3-5
<u>Recordkeeping and Reporting Requirements</u>	3-6
<u>SUMMARY PAGE FOR PAI GROUP 2 STORAGE VESSELS</u>	4-1
<u>PROVISOS FOR PAI GROUP 2 STORAGE VESSELS</u>	4-2
<u>Applicability</u>	4-2
<u>Emission Standards</u>	4-2
<u>Compliance and Performance Test Methods and Procedures</u>	4-3
<u>Emission Monitoring</u>	4-3
<u>Recordkeeping and Reporting Requirements</u>	4-3
<u>SUMMARY PAGE FOR MON GROUP 2 STORAGE VESSELS</u>	5-1
<u>PROVISOS FOR MON GROUP 2 STORAGE VESSELS</u>	5-2
<u>Applicability</u>	5-2
<u>Emission Standards</u>	5-2
<u>Compliance and Performance Test Methods and Procedures</u>	5-2
<u>Emission Monitoring</u>	5-2
<u>Recordkeeping and Reporting Requirements</u>	5-2
<u>SUMMARY PAGE FOR BOILERS</u>	6-1
<u>PROVISOS FOR BOILERS</u>	6-2
<u>Applicability</u>	6-2

<u>Emission Standards</u>	6-2
<u>Compliance and Performance Test Methods and Procedures</u>	6-3
<u>Emission Monitoring</u>	6-3
<u>Recordkeeping and Reporting Requirements</u>	6-4
<u>SUMMARY PAGE FOR EMERGENCY ENGINES</u>	7-1
<u>PROVISOS FOR EMERGENCY ENGINES</u>	7-2
<u>Applicability</u>	7-2
<u>Emission Standards</u>	7-2
<u>Compliance and Performance Test Methods and Procedures</u>	7-3
<u>Emission Monitoring</u>	7-4
<u>Recordkeeping and Reporting Requirements</u>	7-4

General Permit Provisos

Federally Enforceable Provisos	Regulations
1. <u>Transfer</u> 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. 2. <u>Renewals</u> 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. 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. <u>Severability Clause</u> 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. 4. <u>Compliance</u> (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. (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-.02(6) Rule 335-3-16-.12(2) Rule 335-3-16-.05(e) Rule 335-3-16-.05(f) Rule 335-3-16-.05(g)

General Permit Provisos

Federally Enforceable Provisos	Regulations
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. 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> 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:	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. <u>Compliance Provisions</u> (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. <u>Compliance Certification</u> A compliance certification shall be submitted annually by March 1st of each year, unless more frequent periods are specified according to the specific rule governing the source or required by the Department. (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;	Rule 335-3-16-.07(e)

General Permit Provisos

Federally Enforceable Provisos

Regulations

- (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:

Enforcement and Compliance Assurance Division
EPA Region IV
Atlanta Federal Center
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:

- (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.

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

General Permit Provisos

Federally Enforceable Provisos	Regulations
14. <u>Additional Rules and Regulations</u> 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), <u>Code of Alabama 1975</u>, as amended
15. <u>Equipment Maintenance or Breakdown</u> (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: (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.	Rule 335-3-1-.07(1),(2)
16. <u>Operation of Capture and Control Devices</u> 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), <u>Code of Alabama 1975</u>, as amended

General Permit Provisos

Federally Enforceable Provisos	Regulations
17. <u>Obnoxious Odors</u> 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. <u>Fugitive Dust</u> (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. <u>Additions and Revisions</u> 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. <u>Recordkeeping Requirements</u> (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. <u>Reporting Requirements</u> (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. <u>Emission Testing Requirements</u> 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. 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-.05(3) and Rule 335-3-1-.04(1) Rule 335-3-1-.04

General Permit Provisos

Federally Enforceable Provisos	Regulations
(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 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. 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.	Rule 335-3-1-.04
23. <u>Payment of Emission Fees</u> 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. <u>Other Reporting and Testing Requirements</u> 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. <u>Title VI Requirements (Refrigerants)</u> 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. 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.	335-3-16-.05(a)

General Permit Provisos

Federally Enforceable Provisos	Regulations
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. <u>Chemical Accidental Prevention Provisions</u> 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: (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.	40 CFR Part 68
27. <u>Display of Permit</u> 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.	Rule 335-3-14-.01(1)(d)
28. <u>Circumvention</u> 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.	Rule 335-3-1-.10
29. <u>Visible Emissions</u> 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)

General Permit Provisos

Federally Enforceable Provisos	Regulations
30. <u>Fuel-Burning Equipment</u> 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). 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 335-3-4-.03(1) Rule 335-3-5-.01
31. <u>Process Industries – General</u> 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. <u>Averaging Time for Emission Limits</u> 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. <u>Permit Shield</u> 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.	Rule 335-3-16-.10
34. <u>Compliance Assurance Monitoring (CAM)</u> 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. (a) <u>Operation of Approved Monitoring</u> (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).	40 CFR 64.7

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
(c) Reporting and Recordkeeping Requirements (1) General reporting requirements (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. (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: (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; (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 (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. (2) General recordkeeping requirements. (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).	40 CFR 64.9

General Permit Provisos

Federally Enforceable Provisos	Regulations
(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. (d) Savings Provisions (3) Nothing in this part shall: (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. (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. (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.	40 CFR 64.10

A Business Unit (ABU)

Informational Summary

Description: A Business Unit (L-Building, G-Building, and G2-Building)

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 MMM

40 CFR Part 63, Subpart FFFF

Pollutants Emitted

Emission Point No.	Point Description	Pollutant	Emission Limit	Standard
F-U401	CD-GL Thermal Oxidizer	SO ₂	1.8 lb/MMBtu	335-3-5-.01(1)(a)
F-U401	See Above	HAP	Reduce HAP emissions by ≥ 98 percent by weight	335-3-11-.06(64)
F-U402	A-Unit Flare	HAP	§63.11(b)	335-3-11-.06(64)
F-U402	See Above	HAP	PSD limit of 720 hours/year	335-3-14-.04
V-U402	Flue Gas Scrubber (Series)	HAP	N/A	335-3-11-.06(64)
V-U403	Caustic Knockout Pot (Series)	HAP	N/A	335-3-11-.06(64)
C-CD901	Central Drumming Air Wash	HAP	N/A	335-3-11-.06(64)
C-U901	G/G2 Process Building Air Wash	HAP	N/A	335-3-11-.06(64)
	A Business Unit (ABU) Fugitives	HAP	Equivalent HON, 40 CFR Part 63, Subpart H LDAR Program	335-3-11-.06(7) 335-3-11-.06(64)
	A Business Unit (ABU) Wastewater Stream	HAP	Maintain as HON Group 2 Wastewater Stream	335-3-11-.06(6) 335-3-11-.06(64)
All Points	A Business Unit (ABU) (Emission Unit: 001)	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
All Points	A Business Unit (ABU) (Emission Unit: 001)	Opacity	20% opacity (6-minute average) and 40% opacity (no more than one 6-minute average in any 60-minute period)	335-3-4-.01

A Business Unit 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(1), Control of Particulate Emissions – Process Industries.	ADEM Admin. Code r. 335-3-4-.04(1)
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(1)(a)
5. This source is subject to the requirements of 40 CFR Part 63, Subpart MMM – National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production (PAI).	ADEM Admin. Code r. 335-3-11-.06(64)
6. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart MMM.	ADEM Admin. Code r. 335-3-11-.06(1)
7. This source is subject to the requirements of 40 CFR Part 63, Subpart FFFF – National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing. As stated in §63.2535(d), the overlapping requirements of 40 CFR Part 63, Subpart MMM shall constitute compliance with this requirement.	ADEM Admin. Code r. 335-3-11-.06(83)
8. This source is subject to synthetic minor PSD emission limitations.	ADEM Admin. Code r. 335-3-14-.04
<i>Emission Standards</i>	
1. The sulfur dioxide emission rate from the CD-GL Thermal Oxidizer (F-U401) shall not exceed 1.8 lb/MMBtu.	ADEM Admin. Code r. 335-3-5-.01(1)(a)
2. The particulate matter (PM) emission rate from the A Business Unit (ABU) shall not exceed the amount determined by the equation: $E = 3.59P^{0.62}$ Where: E = Emissions in lb/hr P = Process load rate in tons/hr	ADEM Admin. Code r. 335-3-4-.04(1)

A Business Unit Provisos

Federally Enforceable Provisos	Regulations
3. As indicated in §63.1362(b)(2)(ii) and Table 2 of 40 CFR Part 63, Subpart MMM, the CD-GL Thermal Oxidizer (F-U401) and scrubber series (V-U402 and V-U403) shall reduce organic HAP emissions by greater than or equal to 98 percent by weight.	ADEM Admin. Code r. 335-3-11-.06(64)
4. As indicated in §63.1362(b)(2)(iv)(B), the A-Unit Flare (F-U402) shall meet the requirements of §63.11(b).	ADEM Admin. Code r. 335-3-11-.06(64)
5. The A Business Unit (ABU) process emissions shall be routed to CD-GL Thermal Oxidizer (F-U401) and scrubber series (V-U402 and V-U403) as the primary control device and A-Unit Flare (F-U402) as the secondary control device.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-14-.04
6. The permittee shall only route emissions to the A-Unit Flare (F-U402) for a maximum of 720 hours per calendar year.	ADEM Admin. Code r. 335-3-14-.04
7. As indicated in §63.1362(b)(3)(i), the uncontrolled HCl and Cl ₂ emissions from the sum of all process vents within the A Business Unit (ABU) shall be maintained at less than 6.8 Mg/yr.	ADEM Admin. Code r. 335-3-11-.06(64)
8. A leak detection and repair (LDAR) program as specified in §63.1363 shall be implemented for applicable equipment.	ADEM Admin. Code r. 335-3-11-.06(7) & 335-3-11-.06(64)
9. The wastewater streams in this unit shall be maintained such that the streams are classified as Group 2 wastewater streams with respect to §63.132(c), as referenced by the definitions in §63.1361.	ADEM Admin. Code r. 335-3-11-.06(6) & 335-3-11-.06(64)
10. Any source of particulate emissions shall not discharge into the atmosphere, particulate of an opacity greater than twenty percent (20%), as determined by a six-minute average, except for one six (6) minute period in any sixty (60) minute period of not greater than forty percent (40%).	ADEM Admin. Code r. 335-3-4-.01
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the sulfur dioxide (SO ₂) emission rates shall be determined by EPA Reference Method 6 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
2. Compliance with the particulate matter (PM) emission rates shall be determined by EPA Reference Method 5 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

A Business Unit Provisos

Federally Enforceable Provisos	Regulations
3. Compliance with the organic HAP emission rates shall be determined by EPA Reference Method 18, 25, or 25A 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. 335-3-11-.06(64) & 335-3-10-.03
4. Compliance with the HCl and Cl ₂ emission rates shall be determined by EPA Reference Method 26 or 26A 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. 335-3-11-.06(64) & 335-3-10-.03
5. Compliance with the opacity requirement for the flares shall be determined by EPA Reference Method 22 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-10-.03
6. The test methods and procedures for the leak detection and repair (LDAR) program specified in §63.1363 shall be followed.	ADEM Admin. Code r. 335-3-11-.06(7) & 335-3-11-.06(64)
7. Compliance with the opacity standard shall be determined by EPA Reference Method 9 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
8. Emissions tests to demonstrate removal and destruction efficiency for the RTOs are to be conducted for HAPs at intervals not to exceed 5 years following the date of the previous approved test. All test reports must be submitted to the Department within 30 days of completion of testing. Emission tests are to be conducted by persons familiar with and using EPA Sampling Train and Test Procedure as described in the Code of Federal Regulations, Title 40, Part 60, Method 18 or 25 or 25A, and 24 as required by the Department.	ADEM Admin. Code r. 335-3-1-.04
<i>Emission Monitoring</i>	
1. As an indicator of compliance with the sulfur dioxide (SO ₂) emission limitation for the CD-GL Thermal Oxidizer, the unit shall be limited to firing natural gas.	ADEM Admin. Code r. 335-3-5-.01(1)(a) & 335-3-14-.04
2. As an indicator of compliance with the organic HAP emission limitation of the CD-GL Thermal Oxidizer (F-U401), the firebox temperature, calculated as a daily average, shall be maintained at 1,400°F or greater. The facility shall continuously monitor the firebox temperature and record a measurement at least once every 15 minutes.	ADEM Admin. Code r. 335-3-11-.06(64)

A Business Unit Provisos

Federally Enforceable Provisos	Regulations
3. The A-Unit Flare (F-U402) shall be equipped with a device capable of continuously detecting the presence of a pilot flame.	ADEM Admin. Code r. 335-3-11-.06(64)
4. As an indicator of compliance with the net heating value requirement of §63.11(b), the A-Unit Flare (F-U402) natural gas to vent gas ratio shall be maintained at 0.42 or greater.	ADEM Admin. Code r. 335-3-11-.06(64)
5. As an indicator of proper operation of the scrubber series (V-U402 and V-U403), the scrubber flowrate, calculated as a daily average, shall be maintained at 20 gpm or greater. The facility shall continuously monitor the scrubber flowrate and record a measurement at least once every 15 minutes when the scrubbers are operating.	ADEM Admin. Code r. 335-3-11-.06(64)
<i>Recordkeeping and Reporting Requirements</i>	
1. Records of the daily firebox temperature for CD-GL Thermal Oxidizer (F-U401) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06(64)
2. Records for the amount of time that the vent stream is diverted from CD-GL Thermal Oxidizer (F-U401) with scrubber series (V-U402 and V-U403) to A-Unit Flare (F-U402) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-16-.05(c)(1)(ii)
3. Records of the presence of a pilot flame on the A-Unit Flare (F-U402) shall be maintained and readily available for inspection for a period of five (5) years. Records shall include the reason and duration of the outage.	ADEM Admin. Code r. 335-3-11-.06(64)
4. Records of the natural gas to vent gas ratio for A-Unit Flare (F-U402) shall be maintained and readily available for inspection for a period of five (5) years. The natural gas to vent gas ratio shall be included in the semiannual periodic report required by 40 CFR Part 63, Subpart MMM.	ADEM Admin. Code r. 335-3-11-.06(64)
5. Records of the daily average scrubber flowrate for the scrubber series (V-U402 and V-U403) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06(64)
6. The recordkeeping and reporting requirements for leak detection and repair (LDAR) program listed in §63.1363(g) and §63.1363(h), for 40 CFR Part 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(7) & 335-3-11-.06(64)

A Business Unit Provisos

Federally Enforceable Provisos	Regulations
7. As indicated in §63.132(b)(3), referenced by §63.1362(d), the recordkeeping and reporting requirements listed in §63.146(b)(1) and §63.147(b)(8), of 40 CFR Part 63, Subpart G shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(6) & 335-3-11-.06(64)
8. The recordkeeping and reporting requirements listed in §63.1367 and §63.1368, of 40 CFR Part 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(64)

B Business Unit (BBU)

Informational Summary

Description: B Business Unit (BBU)

Emission Unit: 002

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 DD

40 CFR Part 63, Subpart MMM

Pollutants Emitted

Emission Point No.	Point Description	Pollutant	Emission Limit	Standard
F-U406	NO _x Thermal Oxidizer	SO ₂	1.8 lb/MMBtu	335-3-5-.01(1)(a)
F-U406	See Above	HAP	Reduce HAP emissions by ≥ 98 percent by weight	335-3-11-.06(64)
F-U408	B-Unit Flare	HAP	§63.11(b)	335-3-11-.06(64)
F-U408	See Above	HAP	PSD limit of 720 hours/year	335-3-14-.04
C-B301	Acidic Vent Scrubber	HCl	Reduce HCl and Cl ₂ emissions by ≥ 94%	335-3-11-.06(64)
C-B702	HCl Scrubber	HCl	Reduce HCl and Cl ₂ emissions by ≥ 94%	335-3-11-.06(64)
C-U405	Steam Stripper	VOHAP	Maintain point-of-delivery VOHAP concentration < 500 ppmw	335-3-11-.06(29)
C-B401	BBU Building Air Wash	HAP	N/A	335-3-11-.06(64)
	B Business Unit (BBU) Fugitives	HAP	Equivalent HON, 40 CFR Part 63, Subpart H LDAR Program	335-3-11-.06(7) 335-3-11-.06(64)
	B Business Unit (BBU) Wastewater Stream	HAP	Maintain as HON Group 2 Wastewater Stream	335-3-11-.06(6) 335-3-11-.06(64)
All Points	B Business Unit (BBU) (Emission Unit: 002)	PM	$E = 3.59P^{0.62}$	335-3-4-.04(1)
All Points	B Business Unit (BBU) (Emission Unit: 002)	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60-minute period and no 6-minute average opacity greater than 40%	335-3-4-.01

B Business Unit 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(1), Control of Particulate Emissions – Process Industries.	ADEM Admin. Code r. 335-3-4-.04(1)
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(1)(a)
5. This source is subject to the requirements of 40 CFR Part 63, Subpart MMM – National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production.	ADEM Admin. Code r. 335-3-11-.06(64)
6. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart MMM.	ADEM Admin. Code r. 335-3-11-.06(1)
7. This source is subject to synthetic minor PSD emission limitations.	ADEM Admin. Code r. 335-3-14-.04
8. This source is subject to the requirements of 40 CFR Part 63, Subpart DD – National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations.	ADEM Admin. Code r. 335-3-11-.06(29)
9. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart DD.	ADEM Admin. Code r. 335-3-11-.06(1)
<i>Emission Standards</i>	
1. The sulfur dioxide (SO ₂) emission rate from NO _x Thermal Oxidizer (F-U406) shall not exceed 1.8 lb/MMBtu.	ADEM Admin. Code r. 335-3-5-.01(1)(a)
2. The particulate matter (PM) emission rate from the B Business Unit (BBU) shall not exceed the amount determined by the equation: $E = 3.59P^{0.62}$ Where: E = Emissions in lb/hr P = Process load rate in tons/hr	ADEM Admin. Code r. 335-3-4-.04(1)

B Business Unit Provisos

Federally Enforceable Provisos	Regulations
3. As indicated in §63.1362(b)(2)(ii) and Table 2 of 40 CFR Part 63, Subpart MMM, the NO _x Thermal Oxidizer (F-U406) shall reduce organic HAP emissions by greater than or equal to 98 percent by weight.	ADEM Admin. Code r. 335-3-11-.06(64)
4. As indicated in §63.1362(b)(2)(iv)(B), the B-Unit Flare (F-U408) shall meet the requirements of §63.11(b).	ADEM Admin. Code r. 335-3-11-.06(64)
5. The B Business Unit (BBU) process emissions shall be routed to NO _x Thermal Oxidizer (F-U406) as the primary control device and B-Unit Flare (F-U408) as the secondary control device.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-14-.04
6. The permittee shall only route process emissions to the B-Unit Flare (F-U408) for a maximum of 720 hours per calendar year.	ADEM Admin. Code r. 335-3-14-.04
7. As indicated in §63.1362(b)(3)(ii) and Table 2 of 40 CFR Part 63, Subpart MMM, the Acidic Vent Scrubber (C-B301) and HCl Scrubber (C-B702) shall reduce HCl and Cl ₂ emissions by greater than or equal to 94 percent.	ADEM Admin. Code r. 335-3-11-.06(64)
8. As indicated in §63.143(b) and Table 12 of 40 CFR Part 63, Subpart G, the facility shall monitor the steam to water feed ratio, the wastewater feed mass flow rate, and the column operating temperature for the Steam Stripper (C-U405).	ADEM Admin. Code r. 335-3-11-.06(6) & 335-3-11-.06(64)
9. A leak detection and repair (LDAR) program as specified in §63.1363 shall be implemented for applicable equipment.	ADEM Admin. Code r. 335-3-11-.06(7) & 335-3-11-.06(64)
10. The wastewater streams in this unit shall be maintained such that the streams are classified as Group 2 wastewater streams with respect to §63.132(c), as referenced by the definitions in §63.1361.	ADEM Admin. Code r. 335-3-11-.06(6) & 335-3-11-.06(64)
11. Any source of particulate emissions shall not discharge into the atmosphere, particulate of an opacity greater than twenty percent (20%), as determined by a six-minute average, except for one six (6) minute period in any sixty (60) minute period of not greater than forty percent (40%).	ADEM Admin. Code r. 335-3-4-.01
12. As indicated in §63.683(b)(1)(iii) and §63.683(c)(1)(ii), the facility shall maintain the average VOHAP concentration of the off-site material at less than 500 ppm by weight at the point-of-delivery.	ADEM Admin. Code r. 335-3-11-.06(29)

B Business Unit Provisos

Federally Enforceable Provisos	Regulations
13. As indicated in §63.683(e), the facility shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. <i>Compliance and Performance Test Methods and Procedures</i> 1. Compliance with the sulfur dioxide (SO₂) emission rate shall be determined by EPA Reference Method 6 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted. 2. Compliance with the particulate matter (PM) emission rates shall be determined by EPA Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted. 3. Compliance with the organic HAP emission rate shall be determined by EPA Reference Method 18, 25, or 25A in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted. 4. Compliance with the HCl and Cl₂ emission rates shall be determined by EPA Reference Method 26 or 26A in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted. 5. Compliance with the opacity requirement for the flares shall be determined by EPA Reference Method 22 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted. 6. The test methods and procedures for the leak detection and repair (LDAR) program specified in §63.1363 shall be followed. 7. Compliance with the opacity standard shall be determined by EPA Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted. 8. The initial determination procedures specified in §63.694(b) shall be followed to determine the average VOHAP concentration of the off-site material at the point-of-delivery.	ADEM Admin. Code r. 335-3-11-.06(29) ADEM Admin. Code r. 335-3-10-.03 ADEM Admin. Code r. 335-3-10-.03 ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-10-.03 ADEM Admin. Code r. 335-3-11.06(64) 335-3-10-.03 ADEM Admin. Code r. 335-3-11.06(64) 335-3-10-.03 ADEM Admin. Code r. 335-3-11-.06(7) & 335-3-11-.06(64) ADEM Admin. Code r. 335-3-10-.03 ADEM Admin. Code r. 335-3-11-.06(29)

B Business Unit Provisos

Federally Enforceable Provisos	Regulations
9. Emissions tests to demonstrate removal and destruction efficiency for the RTOs are to be conducted for HAPs at intervals not to exceed 5 years following the date of the previous approved test. All test reports must be submitted to the Department within 30 days of completion of testing. Emission tests are to be conducted by persons familiar with and using EPA Sampling Train and Test Procedure as described in the Code of Federal Regulations, Title 40, Part 60, Method 18 or 25 or 25A, and 24 as required by the Department.	ADEM Admin. Code r. 335-3-1-.04
<i>Emission Monitoring</i>	
1. As an indicator of compliance with the sulfur dioxide (SO₂) emission limitation for the Thermal Oxidizer (F-U406), the unit shall be limited to firing natural gas.	ADEM Admin. Code r. 335-3-5-.01(1)(a) & 335-3-14-.04
2. As an indicator of compliance with the organic HAP process emission limitation of the Thermal Oxidizer (F-U406), the firebox temperature, calculated as a daily average, shall be maintained at 1,750°F or greater. The facility shall continuously monitor the firebox temperature and record a measurement at least once every 15 minutes.	ADEM Admin. Code r. 335-3-11-.06(64)
3. The B-Unit Flare (F-U408) shall be equipped with a device capable of continuously detecting the presence of a pilot flame.	ADEM Admin. Code r. 335-3-11-.06(64)
4. As an indicator of compliance with the net heating value requirement of §63.11(b), the B-Unit Flare (F-U408) natural gas to vent gas ratio shall be maintained at 0.17 or greater.	ADEM Admin. Code r. 335-3-11-.06(64)
5. As an indicator of compliance with the HCl and Cl₂ emission limitation of the Acidic Vent Scrubber (C-B301), the scrubber liquor flowrate, calculated as a daily average, shall be maintained at 35 gpm or greater. The facility shall continuously monitor the liquor flowrate and record a measurement at least once every 15 minutes.	ADEM Admin. Code r. 335-3-11-.06(64)
6. As an indicator of compliance with the HCl and Cl₂ emission limitation of the Acidic Vent Scrubber (C-B301), the facility shall maintain a circulating scrubbing liquor pH, calculated as a daily average, of 9.5 or greater. The facility shall continuously monitor the liquor pH and record a measurement at least once every 15 minutes.	ADEM Admin. Code r. 335-3-11-.06(64)

B Business Unit Provisos

Federally Enforceable Provisos	Regulations
7. As an indicator of compliance with the HCl and Cl ₂ emission limitation of the HCl Scrubber (C-B702), the scrubber water flowrate shall be established at 8 gpm or greater prior to acid truck unloading.	ADEM Admin. Code r. 335-3-11-.06(64)
8. As an indicator of compliance with the HCl and Cl ₂ emission limitation of the HCl Scrubber (C-B702), the scrubber reservoir shall be filled with fresh process water prior to initiating operation for truck unloading.	ADEM Admin. Code r. 335-3-11-.06(64)
9. As an indicator of compliance with the Group 2 wastewater stream requirements, when wastewater is passing from the Steam Stripper to wastewater treatment, the steam to water feed ratio for Steam Stripper (C-U405), calculated as a daily average, shall be maintained at 0.33 or greater. The facility shall continuously monitor the steam to water feed ratio and record a measurement at least once every 15 minutes.	ADEM Admin. Code r. 335-3-11-.06(6) & 335-3-11-.06(64) & 335-3-14-.04
10. As an indicator of compliance with the Group 2 wastewater stream requirements, when wastewater is passing from the Steam Stripper to wastewater treatment, the wastewater feed flowrate for Steam Stripper (C-U405), calculated as a daily average, shall be maintained at less than 15,800 gallons per hour. The facility shall continuously monitor the wastewater feed flowrate and record a measurement at least once every 15 minutes.	ADEM Admin. Code r. 335-3-11-.06(6) & 335-3-11-.06(64) & 335-3-14-.04
11. As an indicator of compliance with the Group 2 wastewater stream requirements, when wastewater is passing from the Steam Stripper to wastewater treatment, the column operating temperature for Steam Stripper (C-U405), calculated as a daily average, shall be maintained at 203°F or greater. The facility shall continuously monitor the column operating temperature and record a measurement at least once every 15 minutes.	ADEM Admin. Code r. 335-3-11-.06(6) & 335-3-11-.06(64) & 335-3-14-.04
12. The monitoring and inspection requirements listed under §63.1366 of 40 CFR Part 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(64)
13. As indicated in §63.683(b)(1)(iii) and §63.683(c)(1)(ii), the facility shall review and update, as necessary, the average VOHAP concentration of the off-site material at least once every calendar year following the date of the initial determination.	ADEM Admin. Code r. 335-3-11-.06(29)

B Business Unit Provisos

Federally Enforceable Provisos	Regulations
<i>Recordkeeping and Reporting Requirements</i>	
1. Records of the daily firebox temperature for NO _x Thermal Oxidizer (F-U406) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06(64)
2. Records for the amount of time that the vent stream is diverted from NO _x Thermal Oxidizer (F-U406) to B-Unit Flare (F-U408) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-16-.05(c)(1)(ii)
3. Records of the presence of a pilot flame on B-Unit Flare (F-U408) shall be readily available for inspection for a period of five (5) years. Records shall include the reason and duration of the outage.	ADEM Admin. Code r. 335-3-11-.06(64)
4. Records of the natural gas to vent gas ratio for B-Unit Flare (F-U408) shall be maintained and readily available for inspection for a period of five (5) years. The natural gas to vent gas ratio shall be included in the semiannual periodic report required by 40 CFR Part 63, Subpart MMM.	ADEM Admin. Code r. 335-3-11-.06(64)
5. Records of the daily scrubber liquor flowrate for Acidic Vent Scrubber (C-B301) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06(64)
6. Records of the daily average scrubber liquor pH for Acidic Vent Scrubber (C-B301) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06(64)
7. Records of HCl Scrubber (C-B702) water flowrate established at the beginning of use for each acid truck unloaded shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06(64)
8. Records of the daily average steam to water feed ratio for Steam Stripper (C-U405) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06(6) & 335-3-11-.06(64) & 335-3-16-.05(c)(1)(ii)

B Business Unit Provisos

Federally Enforceable Provisos	Regulations
9. Records of the daily average wastewater feed flowrate for Steam Stripper (C-U405) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06(6) & 335-3-11-.06(64) & 335-3-16-.05(c)(1)(ii)
10. Records of the daily average column operating temperature for Steam Stripper (C-U405) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06(6) & 335-3-11-.06(64) & 335-3-16-.05(c)(1)(ii)
11. The recordkeeping and reporting requirements for leak detection and repair (LDAR) program listed in §63.1363(g) and §63.1363(h), for 40 CFR 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(64)
12. The recordkeeping and reporting requirements listed in §63.1367 and §63.1368, respectively of 40 CFR Part 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(64)
13. If the VOHAP concentration of the off-site material is greater than or equal to 500 ppm by weight at the point-of-delivery, the facility shall notify the Department within 48 hours.	ADEM Admin. Code r. 335-3-16-.05(c)(ii)

PAI Group 1 Storage Vessels

Informational Summary

Description: Storage Vessels Classified as Group 1 with respect to 40 CFR Part 63, Subpart MMM

Emission Unit: 003

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

40 CFR Part 63, Subpart MMM

Pollutants Emitted

Tank No.	Tank Capacity	Material In Tank	Maximum Vapor Pressure	Control Requirement	Standard
T-G204	≤ 75 m ³	Methanesulfonyl Chloride	≤ 3.45 kPa	Route to F-U401 or F-U402	335-3-14-.04
T-G302	≤ 75 m ³	HAP	≥ 3.45 kPa	Route to F-U401 or F-U402	335-3-14-.04
T-G303	≤ 75 m ³	HAP	≥ 3.45 kPa	Route to F-U401 or F-U402	335-3-14-.04
V-G220	≤ 75 m ³	3-Picoline	≤ 3.45 kPa	Route to F-U401 or F-U402	335-3-14-.04
V-L601	≤ 75 m ³	3-Picoline	≤ 3.45 kPa	Route to F-U401 or F-U402	335-3-14-.04
V-G112	≥ 75 m ³	HAP	≥ 3.45 kPa	Route to F-U401 or F-U402	335-3-11-.06(64)
V-L307	≤ 75 m ³	Methanesulfonyl Chloride	≤ 3.45 kPa	Route to F-U401 or F-U402	335-3-14-.04
V-T205	≥ 75 m ³	HAP	≥ 3.45 kPa	Route to F-U401 or F-U402	335-3-11-.06(64)
T-G549	≤ 75 m ³	HAP	≥ 3.45 kPa	Route to C-U901 Building Air Wash System	335-3-14-.04
V-U412	≥ 75 m ³	Waste Solvent	≥ 3.45 kPa	Route to F-U401 or F-U402	335-3-14-.04
V-CD101	≤ 75 m ³	Methanesulfonyl Chloride	≤ 3.45 kPa	Route to F-U401 or F-U402	335-3-11-.06(64)
T-G203	≥ 75 m ³	Methanesulfonyl Chloride	≤ 3.45 kPa	Route to F-U401 or F-U402	335-3-11-.06(64)
T-B112	≥ 75 m ³	VOC	≥ 3.45 kPa	Route to F-U406 or F-U408	335-3-11-.06(64)
T-B114	≥ 75 m ³	VOC	≥ 3.45 kPa	Route to F-U406 or F-U408	335-3-11-.06(64)
V-B310	≥ 75 m ³	HAP	≥ 3.45 kPa	Route to F-U406 or F-U408	335-3-11-.06(64)
T-B603	≤ 75 m ³	VOC	≤ 3.45 kPa	Route to F-U406 or F-U408	335-3-14-.04
V-B311	≥ 75 m ³	HAP	≥ 3.45 kPa	Route to F-U406 or F-U408	335-3-14-.04
V-B102	≥ 75 m ³	HAP	≥ 3.45 kPa	Route to F-U406 or F-U408	335-3-11-.06(64)
V-B103	≥ 75 m ³	HAP	≥ 3.45 kPa	Route to F-U406 or F-U408	335-3-11-.06(64)
V-B107	≥ 75 m ³	HAP	≥ 3.45 kPa	Route to F-U406 or F-U408	335-3-11-.06(64)
V-B453	≤ 75 m ³	HAP	≤ 3.45 kPa	Route to F-U406 or F-U408	335-3-14-.04
T-B702	≤ 75 m ³	HAP	≥ 3.45 kPa	Route to HCl Tank Scrubber C-B702	335-3-14-.04
T-B116	≤ 75 m ³	VOC	≤ 3.45 kPa	Route to F-U406 or F-U408	335-3-14-.04
V-B612	≤ 75 m ³	Methanesulfonyl Chloride	≤ 3.45 kPa	Route to F-U406 or F-U408	335-3-14-.04
T-B105	≥ 75 m ³	ABU Aqueous Waste	≤ 3.45 kPa	Route to F-U406 or F-U408	335-3-14-.04
T-B118	≤ 75 m ³	ABU Aqueous Waste	≤ 3.45 kPa	Route to F-U406 or F-U408	335-3-14-.04
T-B119	≤ 75 m ³	ABU Aqueous Waste	≤ 3.45 kPa	Route to F-U406 or F-U408	335-3-14-.04
T-B108	≥ 75 m ³	ABU Aqueous Waste	≤ 3.45 kPa	Route to F-U406 or F-U408	335-3-14-.04

T-B106	$\geq 75 \text{ m}^3$	Waste Solvent	$\geq 3.45 \text{ kPa}$	Route to F-U406 or F-U408	335-3-14-.04
T-B107	$\geq 75 \text{ m}^3$	Waste Solvent	$\geq 3.45 \text{ kPa}$	Route to F-U406 or F-U408	335-3-14-.04
V-U520	$\leq 75 \text{ m}^3$	Waste Solvent	$\geq 3.45 \text{ kPa}$	Route to F-U406 or F-U408	335-3-14-.04

PAI Group 1 Storage Vessels 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 requirements of 40 CFR Part 63, Subpart MMM – National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production.	ADEM Admin. Code r. 335-3-11-.06(64)
3. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart MMM.	ADEM Admin. Code r. 335-3-11-.06(1)
4. This source is subject to synthetic minor PSD emissions limitations.	ADEM Admin. Code r. 335-3-14-.04
<i>Emission Standards</i>	
1. The following tanks are defined or have been designated as Group 1 storage vessels with respect to 40 CFR Part 63, Subpart MMM.	ADEM Admin. Code r. 335-3-11-.06(64) 335-3-14-.04
T-G204 T-B112 T-B116 T-G302 T-B114 V-B612 T-G303 V-B310 T-B105 V-G220 T-B603 T-B118 V-L601 V-B311 T-B119 V-G112 V-B102 T-B108 V-L307 V-B103 T-B106 V-T205 V-B107 T-B107 T-G549 V-B453 V-U520 V-U412 T-B702 V-CD101 T-G203	
2. The following storage vessels shall be routed to CD-GL Thermal Oxidizer (F-U401) with scrubber series (V-U402 and V-U403) or to A-Unit Flare (F-U402).	ADEM Admin. Code r. 335-3-11-.06(64) 335-3-14-.04
T-G204 V-L601 V-U412 T-G302 V-G112 V-CD101 T-G303 V-L307 T-G203 V-G220 V-T205	
3. The permittee shall only route emissions to the A-Unit Flare (F-U402) for a maximum of 720 hours per calendar year.	ADEM Admin. Code r. 335-3-14-.04

PAI Group 1 Storage Vessels Provisos

Federally Enforceable Provisos	Regulations																					
4. The following storage vessels shall be routed to NO_x Thermal Oxidizer (F-U406) or to B-Unit Flare (F-U408). <table><tr><td>T-B112</td><td>V-B107</td><td>T-B108</td></tr><tr><td>T-B114</td><td>V-B453</td><td>T-B106</td></tr><tr><td>V-B310</td><td>T-B116</td><td>T-B107</td></tr><tr><td>T-B603</td><td>V-B612</td><td>V-U520</td></tr><tr><td>V-B311</td><td>T-B105</td><td></td></tr><tr><td>V-B102</td><td>T-B118</td><td></td></tr><tr><td>V-B103</td><td>T-B119</td><td></td></tr></table>	T-B112	V-B107	T-B108	T-B114	V-B453	T-B106	V-B310	T-B116	T-B107	T-B603	V-B612	V-U520	V-B311	T-B105		V-B102	T-B118		V-B103	T-B119		ADEM Admin. Code r. 335-3-11-.06(64) 335-3-14-.04
T-B112	V-B107	T-B108																				
T-B114	V-B453	T-B106																				
V-B310	T-B116	T-B107																				
T-B603	V-B612	V-U520																				
V-B311	T-B105																					
V-B102	T-B118																					
V-B103	T-B119																					
5. The permittee shall only route emissions to the B-Unit Flare (F-U408) for a maximum of 720 hours per calendar year.	ADEM Admin. Code r. 335-3-14-.04																					
6. As indicated in §63.1362(c)(2)(iv)(A) and Table 2 of 40 CFR Part 63, Subpart MMM, the CD-GL Thermal Oxidizer (F-U401) with scrubber series (V-U402 and V-U403) and the NO_x Thermal Oxidizer (F-U406) shall reduce organic HAP emissions by greater than or equal to 95 percent by weight.	ADEM Admin. Code r. 335-3-11-.06(64)																					
7. As indicated in §63.1362(c)(2)(iv)(C), the A-Unit Flare (F-U402) and B-Unit Flare (F-U408) shall meet the requirements of §63.11(b).	ADEM Admin. Code r. 335-3-11-.06(64)																					
8. A leak detection and repair (LDAR) program as specified in §63.1363 shall be implemented for applicable equipment.	ADEM Admin. Code r. 335-3-11-.06(7) & 335-3-11-.06(64)																					
<i>Compliance and Performance Test Methods and Procedures</i>																						
1. The methods and procedures for storage vessel group determination as indicated in Table 2 of 40 CFR Part 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(64)																					
2. For storage vessel group determinations, the maximum true vapor pressure of the total organic HAPs stored in these vessels shall be determined as specified in the maximum true vapor pressure definition under §63.1361.	ADEM Admin. Code r. 335-3-11-.06(64)																					
3. Compliance with the organic HAP emission rate shall be determined by EPA Reference Method 18, 25, and 25A in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-10-.03																					

PAI Group 1 Storage Vessels Provisos

Federally Enforceable Provisos	Regulations
4. Compliance with the opacity requirement for the flares shall be determined by EPA Reference Method 22 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-10-.03
5. The test methods and procedures for the leak detection and repair (LDAR) program specified in §63.1363 shall be followed.	ADEM Admin. Code r. 335-3-11-.06(7) & 335-3-11-.06(64)
<i>Emission Monitoring</i>	
1. As an indicator of compliance with the organic HAP process emission limitation of the CD-GL Thermal Oxidizer (F-U401), the firebox temperature, calculated as a daily average, shall be maintained at 1400°F or greater during any production or material transfer operations. The facility shall continuously monitor the firebox temperature and record a measurement at least once every 15 minutes.	ADEM Admin. Code r. 335-3-11-.06(64)
2. As an indicator of proper operation of the scrubber series (V-U402 and V-U403), the scrubber flowrate, calculated as a daily average, shall be maintained at 20 gpm or greater. The facility shall continuously monitor the scrubber flowrate and record a measurement at least once every 15 minutes when the scrubbers are operating.	ADEM Admin. Code r. 335-3-11-.06(64)
3. As an indicator of compliance with the organic HAP emission limitation of the NO _x Thermal Oxidizer (F-U406), the firebox temperature, calculated as a daily average, shall be maintained at 1750°F or greater during any production or material transfer operations. The facility shall continuously monitor the firebox temperature and record a measurement at least once every 15 minutes.	ADEM Admin. Code r. 335-3-11-.06(64)
4. When the storage vessel emissions are routed to the A-Unit Flare (F-U402) or B-Unit Flare (F-U408) for control, the facility shall utilize a device capable of continuously detecting the presence of a pilot flame.	ADEM Admin. Code r. 335-3-11-.06(64)
5. As an indicator of compliance with the net heating value requirement of §63.11(b), the A-Unit Flare (F-U402) natural gas to vent gas ratio shall be maintained at 0.42 or greater.	ADEM Admin. Code r. 335-3-11-.06(64)
6. As an indicator of compliance with the net heating value requirement of §63.11(b), the B-Unit Flare (F-U408) natural gas to vent gas ratio shall be maintained at 0.17 or greater.	ADEM Admin. Code r. 335-3-11-.06(64)

PAI Group 1 Storage Vessels Provisos

Federally Enforceable Provisos	Regulations
7. The monitoring requirements for the leak detection and repair (LDAR) program listed in §63.1363 of 40 CFR Part 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(64)
8. The monitoring and inspection requirements listed under §63.1366 of 40 CFR Part 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(64)
<i>Recordkeeping and Reporting Requirements</i>	
1. Records of the daily firebox temperature for CD-GL Thermal Oxidizer (F-U401) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-16-.05(c)(1)(ii)
2. Records of the daily average scrubber flowrate for scrubber series (V-U402 and V-U403) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-16-.05(c)(1)(ii)
3. Records of the daily firebox temperature for NO _x Thermal Oxidizer (F-U406) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-16-.05(c)(1)(ii)
4. Records for the amount of time that the vent stream is diverted from CD-GL Thermal Oxidizer (F-U401) to A-Unit Flare (F-U402) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-16-.05(c)(1)(ii)
5. Records of the natural gas to vent gas ratio for A-Unit Flare (F-U402) shall be maintained and readily available for inspection for a period of five (5) years. The natural gas to vent gas ratio shall be included in the semiannual periodic report required by 40 CFR Part 63, Subpart MMM.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-16-.05(c)(1)(ii)
6. Records for the amount of time that the vent stream is diverted from NO _x Thermal Oxidizer (F-U406) to B-Unit Flare (F-U408) shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-16-.05(c)(1)(ii)
7. Records of the natural gas to vent gas ratio for B-Unit Flare (F-U408) shall be maintained and readily available for inspection for a period of five (5) years. The natural gas to vent gas ratio shall be included in the semiannual periodic report required by 40 CFR Part 63, Subpart MMM.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-16-.05(c)(1)(ii)

PAI Group 1 Storage Vessels Provisos

Federally Enforceable Provisos	Regulations
8. Records of the presence of a pilot flame on A-Unit Flare (F-U402) and B-Unit Flare (F-U408) shall be readily available for inspection for a period of five (5) years. Records shall include the reason and duration of the outage.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-16-.05(c)(1)(ii)
9. The recordkeeping and reporting requirements for leak detection and repair (LDAR) program listed in §63.1363(g) and §63.1363(h), respectively of 40 CFR Part 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-16-.05(c)(1)(ii)
10. The recordkeeping and reporting requirements listed in §63.1367 and §63.1368, respectively of 40 CFR Part 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(64) & 335-3-16-.05(c)(1)(ii)

PAI Group 2 Storage Vessels

Informational Summary

Description: Storage Vessels Classified as Group 2 with respect to 40 CFR Part 63, Subpart MMM

Emission Unit: 004

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

40 CFR Part 63, Subpart MMM

Pollutants Emitted

Tank No.	Tank Capacity	Material In Tank	Maximum Vapor Pressure	Control Requirement	Standard
T-G311	$\geq 75 \text{ m}^3$	ABU Aqueous Waste	$\leq 3.45 \text{ kPa}$	N/A	335-3-11-.06(64)
T-L101	$\geq 75 \text{ m}^3$	ABU Aqueous Waste	$\leq 3.45 \text{ kPa}$	N/A	335-3-11-.06(64)
T-L102	$\geq 75 \text{ m}^3$	ABU Aqueous Waste	$\leq 3.45 \text{ kPa}$	N/A	335-3-11-.06(64)
T-U432	$\geq 75 \text{ m}^3$	ABU Aqueous Waste	$\leq 3.45 \text{ kPa}$	N/A	335-3-11-.06(64)
T-U433	$\geq 75 \text{ m}^3$	ABU Aqueous Waste	$\leq 3.45 \text{ kPa}$	N/A	335-3-11-.06(64)
T-U905	$\geq 75 \text{ m}^3$	ABU Aqueous Waste	$\leq 3.45 \text{ kPa}$	N/A	335-3-11-.06(64)
T-U430	$\geq 75 \text{ m}^3$	ABU Aqueous Waste	$\leq 3.45 \text{ kPa}$	N/A	335-3-11-.06(64)
T-U431	$\geq 75 \text{ m}^3$	ABU Aqueous Waste	$\leq 3.45 \text{ kPa}$	N/A	335-3-11-.06(64)
T-U801	$\geq 75 \text{ m}^3$	ABU Aqueous Waste	$\leq 3.45 \text{ kPa}$	N/A	335-3-11-.06(64)
T-U802	$\geq 75 \text{ m}^3$	ABU Aqueous Waste	$\leq 3.45 \text{ kPa}$	N/A	335-3-11-.06(64)
T-U409	$\geq 75 \text{ m}^3$	ABU Aqueous Waste	$\leq 3.45 \text{ kPa}$	Route to C-U901	335-3-14-.04

PAI Group 2 Storage Vessels 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. 335-3-6-.03, Control of Organic Emissions – Loading and Storage of VOC.	ADEM Admin. Code r. 335-3-6-.03
3. This source is subject to the requirements of 40 CFR Part 63, Subpart MMM – National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production.	ADEM Admin. Code r. 335-3-11-.06(64)
4. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart MMM.	ADEM Admin. Code r. 335-3-11-.06(1)
5. This source is subject to synthetic minor PSD emissions limitations.	ADEM Admin. Code r. 335-3-14-.04
<i>Emission Standards</i>	
1. The following tanks are defined as Group 2 storage vessels with respect to 40 CFR Part 63, Subpart MMM. In order to remain a Group 2 storage vessel with respect to 40 CFR Part 63, Subpart MMM, each material stored in these storage vessels shall have a maximum true vapor pressure below 3.45 kPa.	ADEM Admin. Code r. 335-3-11-.06(64)
T-G311 T-U433 T-U801 T-L101 T-U905 T-U802 T-L102 T-U430 T-U409 T-U432 T-U431 T-G549	
2. Tank No. T-U409 shall be routed to G/G2 Process Building Air Wash Scrubber (C-U901).	ADEM Admin. Code r. 335-3-14-.04
3. A leak detection and repair (LDAR) program as specified in §63.1363 shall be implemented for applicable equipment.	ADEM Admin. Code r. 335-3-11-.06(7) & 335-3-11-.06(64)

PAI Group 2 Storage Vessels Provisos

Federally Enforceable Provisos	Regulations
<i>Compliance and Performance Test Methods and Procedures</i>	
1. The methods and procedures for storage vessel group determination as indicated in Table 2 of 40 CFR Part 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(64)
2. For storage vessel group determinations, the maximum true vapor pressure of the total organic HAPs stored in these vessels shall be determined as specified in the maximum true vapor pressure definition under §63.1361.	ADEM Admin. Code r. 335-3-11-.06(64)
<i>Emission Monitoring</i>	
1. The monitoring requirements for the leak detection and repair (LDAR) program listed in §63.1363 of 40 CFR Part 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(64)
<i>Recordkeeping and Reporting Requirements</i>	
1. The recordkeeping and reporting requirements for the leak detection and repair (LDAR) program listed in §63.1363(g) and §63.1363(h) of 40 CFR Part 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(64)
2. The recordkeeping and reporting requirements listed in §63.1367 and §63.1368 of 40 CFR Part 63, Subpart MMM shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(64)

MON Group 2 Storage Vessels

Informational Summary

Description: Storage Vessels Classified as Group 2 with respect to 40 CFR Part 63, Subpart FFFF

Emission Unit: 005

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

40 CFR Part 63, Subpart FFFF

Pollutants Emitted

Tank No.	Tank Capacity	Material In Tank	Maximum Vapor Pressure	Control Requirement	Standard
V-T206	≥ 10,000 gallons	HAP	≤ 6.9 kPa	N/A	335-3-11-.06(83)
V-L510	≥ 10,000 gallons	HAP	≤ 6.9 kPa	N/A	335-3-11-.06(83)
T-L702	≥ 10,000 gallons	HAP	≤ 6.9 kPa	N/A	335-3-11-.06(83)

MON Group 2 Storage Vessels 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 requirements of 40 CFR Part 63, Subpart FFFF – National Emission Standards for Hazardous Air Pollutants Miscellaneous Organic Chemical Manufacturing.	ADEM Admin. Code r. 335-3-11-.06(83)
3. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.	ADEM Admin. Code r. 335-3-11-.06(1)
<i>Emission Standards</i>	
1. The following tanks are defined as Group 2 storage vessels with respect to 40 CFR Part 63, Subpart FFFF. In order to remain a Group 2 storage vessel with respect to 40 CFR Part 63, Subpart FFFF, each material stored in these storage vessels shall have a maximum true vapor pressure below 6.9 kPa.	ADEM Admin. Code r. 335-3-11-.06(83)
V-T206 V-L510 T-L702	
<i>Compliance and Performance Test Methods and Procedures</i>	
1. The methods and procedures for storage vessel group determination as indicated in the definitions of §63.2550 and Table 4 in 40 CFR Part 63, Subpart FFFF shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(83)
<i>Emission Monitoring</i>	
1. The monitoring requirements listed in §63.2470 of 40 CFR Part 63, Subpart FFFF shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(83)
<i>Recordkeeping and Reporting Requirements</i>	
1. The recordkeeping and reporting requirements listed in §63.2520 and §63.2525 of 40 CFR Part 63, Subpart FFFF shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(83)

Boilers

Informational Summary

Description: Two Natural Gas Fired Boilers

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

40 CFR Part 63, Subpart DDDDD

Pollutants Emitted

Emission Point No.	Point Description	Pollutant	Emission Limit	Standard
F-U203	72.8 MMBtu/hr Boiler	PM	$E = 1.38H^{-0.44}$	335-3-4-.03(1)
F-U203	See Above	SO ₂	1.8 lb/MMBtu	335-3-5-.01(1)(a)
F-U205	52.8 MMBtu/hr Boiler	PM	$E = 1.38H^{-0.44}$	335-3-4-.03(1)
F-U205	See Above	SO ₂	1.8 lb/MMBtu	335-3-5-.01(1)(a)
All Points	Boilers (Emission Unit No. 006)	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60-minute period and no 6-minute average opacity greater than 40%	335-3-4-.01

Boilers 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-.03(1), Control of Particulate Emissions – Fuel Burning Equipment.	ADEM Admin. Code r. 335-3-4-.03(1)
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(1)(a)
5. 72.8 MMBtu/hr Boiler (F-U203) and 52.8 MMBtu/hr Boiler (F-U205) are subject to 40 CFR Part 60, Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.	ADEM Admin. Code r. 335-3-10-.02(2)(c)
6. 72.8 MMBtu/hr Boiler (F-U203) and 52.8 MMBtu/hr Boiler (F-U205) are 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 Dc.	ADEM Admin Code r. 335-3-10-.02(1)
7. 72.8 MMBtu/hr Boiler (F-U203) and 52.8 MMBtu/hr Boiler (F-U205) are subject to 40 CFR Part 63, Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.	ADEM Admin Code r. 335-3-11-.06(107)
8. 72.8 MMBtu/hr Boiler (F-U203) and 52.8 MMBtu/hr Boiler (F-U205) are subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart DDDDD.	ADEM Admin. Code r. 335-3-11-.06(1)
<i>Emission Standards</i>	
1. The particulate matter (PM) emission rates from the boilers (F-U203 and F-U205) shall not exceed the amount determined by the equation, per emission point: $E = 1.38H^{-0.44}$ Where: E = Emissions in lb/million BTU H = Heat Input in millions of BTU/hr	ADEM Admin. Code r. 335-3-4-.03(1)

Boilers Provisos

Federally Enforceable Provisos	Regulations
2. The sulfur dioxide (SO₂) emission rates from the boilers (F-U203 and F-U205) shall not exceed 1.8 lb/MMBtu, per emission point. 3. Any source of particulate emissions shall not discharge into the atmosphere, particulate of an opacity greater than twenty percent (20%), as determined by a six-minute average, except for one six (6) minute period in any sixty (60) minute period of not greater than forty percent (40%). 4. Both boilers (F-U203 and F-U205) shall be classified as a Gas 1 Unit as defined in 40 CFR Part 63, Subpart DDDDD. In order to maintain this classification this source shall be limited to firing natural gas only.	ADEM Admin. Code r. 335-3-5-.01(1)(a) ADEM Admin. Code r. 335-3-4-.01 ADEM Admin. Code r. 335-3-11-.06(107)
<i>Compliance and Performance Test Methods and Procedures</i> 1. Compliance with the particulate matter (PM) emission rates shall be determined by EPA Reference Method 5 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted. 2. Compliance with the NO_x emission rate shall be determined by EPA Reference Method 7 or 7E in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted. 3. Compliance with the sulfur dioxide (SO₂) emission rates shall be determined by EPA Reference Method 6 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted. 4. Compliance with the opacity standard shall be determined by EPA Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted.	
<i>Emission Monitoring</i> 1. As indicated in §63.7540(12) and Table 3 of 40 CFR Part 63, Subpart DDDDD, for new or existing units with a continuous oxygen trim system, a tune-up of the 72.8 MMBtu/hr Boiler (F-U203) shall be conducted every five (5) years. 2. As indicated in §63.7540(12) and Table 3 of 40 CFR Part 63, Subpart DDDDD, for new or existing units without a continuous oxygen trim system, a tune-up of the 52.8 MMBtu/hr Boiler (F-U205) shall be conducted annually.	

Boilers Provisos

Federally Enforceable Provisos	Regulations
<i>Recordkeeping and Reporting Requirements</i>	
1. As required by §60.48c(g)(2), records of the total amount of natural gas combusted in 72.8 MMBtu/hr Boiler (F-U203) and 52.8 MMBtu/hr Boiler (F-U205) shall be recorded on a monthly basis.	ADEM Admin. Code r. 335-3-10-.02(2)(c)
2. As indicated in §63.7550(b), a compliance report containing the information required in §63.7550(c) shall be submitted for both of the boilers (F-U203 and F-U205).	ADEM Admin. Code r. 335-3-11-.06(107)
3. As required by §63.7550, the reporting requirements of Table 9 of Subpart DDDDD shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(107)
4. The recordkeeping requirements listed in §63.7555 shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(107)

Emergency Engines

Informational Summary

Description: Emergency Engines

Emission Unit: 007

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

Emission Point No.	Point Description	Pollutant	Emission Limit	Standard
P-U504	Firewater Pump (327 HP)	NMHC + NO _x	4.0 g/kW-hr	335-3-10-.02(87)
P-U504	See Above	PM	0.2 g/kW-hr	335-3-10-.02(87)
P-U505	Firewater Pump (324 HP)	NMHC + NO _x	4.0 g/kW-hr	335-3-10-.02(87)
P-U505	See Above	PM	0.2 g/kW-hr	335-3-10-.02(87)
A-U984	Emergency Generator (742 HP)	HAPs	N/A	335-3-11-.06(103)
All Points	Emergency Engines (Emission Unit No. 007)	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60-minute period and no 6-minute average opacity greater than 40%	335-3-4-.01

Emergency Engines 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. Firewater Pump (P-U504) and Firewater Pump (P-U505) are subject to the requirements of 40 CFR Part 60, Subpart IIII – Standards of Performance for Stationary Compression ignition Internal Combustion Engines.	ADEM Admin. Code r. 335-3-10-.02(87)
4. Firewater Pump (P-U504) and Firewater Pump (P-U505) are 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 IIII.	ADEM Admin. Code r. 335-3-10-.02(1)
5. All of the emergency engines (P-U504, P-U505, and A-U984) are subject to 40 CFR Part 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.	ADEM Admin. Code r. 335-3-11-.06(103)
6. All of the emergency engines (P-U504, P-U505, and A-U984) are subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart ZZZZ.	ADEM Admin. Code r. 335-3-11-.06(1)
7. For Firewater Pump (P-U504) and Firewater Pump (P-U505), compliance with 40 CFR Part 60, Subpart IIII shall constitute compliance with 40 CFR Part 63, Subpart ZZZZ.	ADEM Admin. Code r. 335-3-10-.02(87)
<i>Emission Standards</i>	
1. The sum of non-methane hydrocarbon (NMHC) and nitrogen oxides (NOx) emission rates from emission point (P-U504) and Firewater Pump (P-U505) shall not exceed 4.0 g/kW-hr as indicated in Table 4 of 40 CFR Part 60, Subpart IIII.	ADEM Admin. Code r. 335-3-10-.02(87)
2. The particulate matter (PM) emission rate from emission point (P-U504) and Firewater Pump (P-U505) shall not exceed 0.2 g/kW-hr as indicated in Table 4 of 40 CFR Part 60, Subpart IIII.	ADEM Admin. Code r. 335-3-10-.02(87)
3. The emergency engines (P-U504 and P-U505) shall be fueled by diesel fuel that meets the requirements of 40 CFR 80.510(b).	ADEM Admin. Code r. 335-3-10-.02(87) & 335-3-11-.06(103)

Emergency Engines Provisos

Federally Enforceable Provisos	Regulations
4. In accordance with §60.4211(f) for Firewater Pump (P-U504) and §63.6640(f) for Firewater Pump (P-U505) and Emergency Generator (A-U984) the emergency engines shall only operate as specified below: (a) Emergency situations. (b) Maintenance checks and readiness testing not to exceed 100 hours per year. (c) Non-emergency situations, not to secede 50 hours per year (these 50 hours count toward the 100 hours per year allowed for maintenance checks and readiness testing). The 50 hours per year for non-emergency situation cannot be used for peak shaving or to generate income for the facility to supply power to an electric grid or otherwise supply power to as part of a financial arrangement with another entity.	ADEM Admin. Code r. 335-3-10-.02(87) & 335-3-11-.06(103)
5. In accordance with §63.6603(a), Firewater Pumps (P-U504 and P-U505) shall meet the requirements in Table 2d as specified below: • Change oil and filter every 500 hours of operation or annually, whichever comes first. • Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary. • Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	ADEM Admin. Code r. 335-3-11-.06(103)
6. Any source of particulate emissions shall not discharge into the atmosphere, particulate of an opacity greater than twenty percent (20%), as determined by a six-minute average, expect for one six (6) minute period in any sixty (60) minute period of not greater than forty percent (40%).	ADEM Admin. Code r. 335-3-4-.01
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the opacity standard shall be determined by EPA Reference Method 9 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

Emergency Engines Provisos

Federally Enforceable Provisos	Regulations
2. The facility must operate and maintain the emergency engines (P-U504 and P-U505) according to the manufacturer's written instruction or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. 3. To indicate compliance with §60.4205(c), Firewater Pump (P-U504 and P-U505) shall be certified for the same model year and maximum engine power (or in the case of fire pumps, NFPA nameplate). The engine must be installed and configured according to the manufacturer's emission related specifications, except as permitted in §60.4211(g).	ADEM Admin. Code r. 335-3-11-.06(103) ADEM Admin. Code r. 335-3-10-.02(87)
<i>Emission Monitoring</i> 1. In accordance with §60.4211(a), Firewater Pump (P-U504) and Firewater Pump (P-U505) shall meet the following requirements, excepts as permitted under §60.4211(g): (a) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission related written instructions; (b) Change only those emission-related settings that are permitted by the manufacturer; and (c) Meet the requirements of 40 CFR Part 89, 94, and/or 1068, as applicable. 2. For emergency engines subject to 40 CFR Part 60, Subpart IIII and/or subject to 40 CFR Part 63, Subpart ZZZZ, a non-resettable hour meter shall be installed.	
<i>Recordkeeping and Reporting Requirements</i> 1. The facility shall keep records of the operation of the engines in emergency and non-emergency service, which is recorded through the non-resettable hour meter. The owner shall record the time of operation of the engine and the reason the engine was in operation during that time. These records shall be retained onsite for inspection purposed for a period of at least five (5) years. 2. Records of maintenance conducted on the emergency engines shall be retained onsite for inspection purposes for a period of at least five (5) years.	