



MAJOR SOURCE OPERATING PERMIT

PERMITTEE: SABIC Innovative Plastics US LLC
FACILITY NAME: SABIC Innovative Plastics US LLC
FACILITY/PERMIT NO.: 207-0008
LOCATION: Burkville, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code 1975, §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code 1975, §§22-22A-1 to 22-22A-15, (2006 Rplc. Vol. and 2007 Cum. Supp.) and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

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

Issuance Date: DRAFT
Effective Date: DRAFT
Expiration Date: DRAFT

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Phase II Acid Rain Permit

Appendix A

CAM Plans

Appendix B

General Permit Provisos

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

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<p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	Rule 335-3-16-.05(h)
<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	Rule 335-3-16-.05(i)
<p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p>	Rule 335-3-16-.05(j)
<p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	Rule 335-3-16-.05(k)
<p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	Rule 335-3-16-.07(a)
<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p>	Rule 335-3-16-.07(b)

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<ul style="list-style-type: none"> (a) Enter upon the permittee’s premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility’s equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. 	
<p>11. <u>Compliance Provisions</u></p> <ul style="list-style-type: none"> (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)
<p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted annually within 60 days of the anniversary date of issuance of this permit.</p> <ul style="list-style-type: none"> (a) The compliance certification shall include the following: <ul style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements); (4) Whether compliance has been continuous or intermittent; 	Rule 335-3-16-.07(e)

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<p>(5) Such other facts as the Department may require to determine the compliance status of the source;</p> <p>(b) The compliance certification shall be submitted to:</p> <p style="text-align: center;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="text-align: center;">and to:</p> <p style="text-align: center;">Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303</p> <p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p> <p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	<p>Rule 335-3-16-.13(5)</p>

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<p>14. <u>Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director 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:</p> <ol style="list-style-type: none"> (1) Identification of the specific facility to be taken out of service as well as its location and permit number; (2) The expected length of time that the air pollution control equipment will be out of service; (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. <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p>	<p>Rule 335-3-1-.07(1), (2)</p>

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<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>Rule 335-3-1-.08</p>
<p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p style="margin-left: 40px;">(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</p> <p style="margin-left: 40px;">(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p> <p style="margin-left: 40px;">(3) By paving;</p> <p style="margin-left: 40px;">(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;</p> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or</p>	<p>Rule 335-3-4-.02</p>

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<p>in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p>	
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none"> (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement. <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit</p>	<p>Rule 335-3-16-.05(c)2.</p>
<p>21. <u>Reporting Requirements</u></p> <p>(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit.</p>	<p>Rule 335-3-16-.05(c)3</p>

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<p>The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p> <p>22. <u>Emission Testing Requirements</u></p> <p>Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p> <p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department’s air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <ol style="list-style-type: none"> (1) 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. (2) 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). (3) 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. (4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances. <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is</p>	<p>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</p> <p>Rule 335-3-1-.04</p> <p>Rule 335-3-1-.04</p>

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

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<p style="text-align: center;">68 § 68.10(a) or,</p> <p>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</p> <p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.</p> <p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p> <p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p> <p>30. <u>Fuel-Burning Equipment</u></p> <p>(a) 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.</p> <p>(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.</p> <p>31. <u>Process Industries – General</u></p>	<p>Rule 335-3-14-.01(1)(d)</p> <p>Rule 335-3-1-.10</p> <p>Rule 335-3-4-.01(1)</p> <p>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p>

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<p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.</p>	Rule 335-3-4-.04
<p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	Rule 335-3-1-.05
<p>33. <u>Permit Shield</u></p> <p>A permit shield exists under this operating permit in accordance with ADEM Administrative Code R. 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance. The permit shield is based on the accuracy of the information supplied in the appendix to the cover letter of the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in this section are not applicable to this source.</p>	Rule 335-3-16-.10
<p>34. <u>Compliance Assurance Monitoring (CAM)</u></p> <p>Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.</p> <p>(a) Operation of Approved Monitoring</p> <p>(1) Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).</p> <p>(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.</p> <p>(3) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable,</p>	40 CFR 64.7

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<p>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.</p> <p>(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. (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.</p> <p>(5) Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or</p>	

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<p>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.</p> <p>(b) Quality Improvement Plan (QIP) Requirements</p> <p>(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.</p> <p>(2) Elements of a QIP:</p> <p>A. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.</p> <p>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:</p> <p>(i) Improved preventive maintenance practices.</p>	<p>40 CFR 64.8</p>

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<ul style="list-style-type: none"> <li style="margin-left: 40px;">(ii) Process operation changes. <li style="margin-left: 40px;">(iii) Appropriate improvements to control methods. <li style="margin-left: 40px;">(iv) Other steps appropriate to correct control performance. <li style="margin-left: 40px;">(v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above). <p>(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.</p> <p>(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:</p> <ul style="list-style-type: none"> 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. <p>(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.</p> <p>(c) Reporting and Recordkeeping Requirements</p> <p>(1) General reporting requirements</p> <ul style="list-style-type: none"> 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. 	<p>40 CFR 64.9</p>

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<p style="text-align: center;">335-3-16-.05(c)3.</p> <p>B. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code R. 335-3-16-.05(c)3. and the following information, as applicable:</p> <ul style="list-style-type: none"> (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. <p>(2) General recordkeeping requirements.</p> <ul style="list-style-type: none"> 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 proviso (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). 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 	

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<p style="text-align: center;">with other applicable recordkeeping requirements.</p> <p>(d) Savings Provisions</p> <p>(1) Nothing in this part shall:</p> <p style="padding-left: 20px;">A. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.</p> <p style="padding-left: 20px;">B. Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.</p> <p style="padding-left: 20px;">C. Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.</p>	<p>40 CFR 64.10</p>

Plant No. 1 -- Phosgene Production Informational Summary

Description: Phosgene Production Facility with associated Coke Unloading Facility.

Operating Schedule: 8760 hours/year.

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

40 CFR Part 63, Subpart YY

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
P-17	Flare (tail gas service)	CO	0.09 lbs/hr	335-3-14-.04
P-18	Flare (tail gas service)	CO	0.09 lbs/hr	335-3-14-.04
P-17 & P-18	Flare (tail gas service)	SO ₂	27.3 tons per 12-month rolling period per point	335-3-14-.04
M-90	Baghouse	PM ₁₀	0.01 lbs/hr	335-3-14-.04
M-92	Baghouse	PM ₁₀	0.01 lbs/hr	335-3-14-.04
M-92	Baghouse	CO	41.2 tons/yr	335-3-14-.04
P-700	Scrubber	PM ₁₀	1.57 lbs/hr	335-3-14-.04
P-700	Scrubber	VOC	0.05 lbs/hr	335-3-14-.04
P-700	Scrubber	SO ₂	1.12 lbs/hr	335-3-14-.04
P-700	Scrubber	NO _x	0.49 lbs/hr	335-3-14-.04
P-700	Scrubber	CO	0.82 lbs/hr	335-3-14-.04
M-1210	Baghouse	CO	1.48 tons/yr	335-3-14-.04
M-4210	Baghouse	CO	1.48 tons/yr	335-3-14-.04
M-1210 & M-4210	Baghouse	PM	16.1 lb/hr	335-3-4-.04 (2)

Phosgene Production 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 unit is subject to the Generic MACT for Polycarbonate Production set forth in 40 CFR Part 63, Subpart YY.	ADEM Admin. Code R. 335-3-11-.06 (50)
3. M-1210, & M-4210 are subject to the Control of Particulate Emissions, Process Industries-General, Class II Counties.	ADEM Admin. Code R. 335-3-4-.04 (2)
4. The Phosgene Production Unit contains two pollutant-specific emissions units that are subject to the Compliance Assurance Monitoring rule set forth in 40 CFR Part 64, the phosgene reactor system (with respect to carbon monoxide, which is controlled by either Flare P-17 or P-18) and the COS incinerator (with respect to sulfur dioxide, which is controlled by scrubber P-700).	40 CFR Part 64
<i>Emission Standards</i>	
1. The Tail Gas Scrubber, whose gas stream flows to either Flare P-17 or Flare P-18 for control of CO, is required to reduce phosgene emissions to a concentration of ≤ 1 ppmv, as specified in the facility's alternative monitoring plan to comply with 40 CFR Part 63, Subpart YY.	ADEM Admin. Code R. 335-3-11-.06 (50); March 27, 2002 approval by ADEM of alternative monitoring plan
2. The particulate matter (PM) emission rate from emission points shall not exceed the amount determined by the equation: $E = 4.10P^{0.67}$ Where E = emissions in lb/hr P = Process weight per hour in tons per hour	ADEM Admin. Code R. 335-3-4-.04 (2)
3. Such that the standards for Best Available Control Technology shall be met, the following emissions limits shall apply: <ul style="list-style-type: none"> • the PM₁₀ emission rate from P-700 shall not exceed 1.57 lbs/hr • the VOC emission rate from P-700 shall not exceed 0.05 lbs/hr • the SO₂ emission rate from P-700 shall not exceed 1.12 lbs/hr • the NO_x emission rate from P-700 shall not exceed 0.49 lbs/hr • the CO emission rate from P-700 shall not exceed 0.82 lbs/hr • the CO emission rate from P-17 shall not exceed 0.09 lbs/hr • the CO emission rate from P-18 shall not exceed 0.09 lbs/hr • the SO₂ emission rate from P-17 and P-18 combined shall not exceed 27.3 tons per 12-month rolling period 	ADEM Admin. Code R. 335-3-14-.04

- the PM₁₀ emission rate from M-90 shall not exceed 0.01 lbs/hr
- the PM₁₀ emission rate from M-92 shall not exceed 0.01 lbs/hr
- the CO emission rate from M-92 shall not exceed 41.2 tons/yr
- the CO emission rate from M-1210 shall not exceed 1.48 tons/yr
- the CO emission rate from M-4210 shall not exceed 1.48 tons/yr

4. Such that the standards for Best Available Control Technology are met for emission points M-92, M-1210, and M-4210, the permittee shall follow a work practice plan in order to address Carbon Monoxide emissions.
5. The Flare, P-18, shall serve as a back-up for P-17 and at no time shall they operate simultaneously except during switching from one flare to the other.

ADEM Admin. Code R.
335-3-14-.01

Compliance and Performance Test Methods and Procedures

1. Compliance with the nitrogen oxides emission limits for the Phosgene Production Unit shall be determined by Reference Method 7 or 7E in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.
2. Compliance with the sulfur dioxide emission limits for the Phosgene Production Unit shall be determined by Reference Method 6 or 6C in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.
3. Compliance with the CO emission limits for the Phosgene Production Unit shall be determined by Reference Method 10 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.

ADEM Admin. Code R.
335-3-10-.03

ADEM Admin. Code R.
335-3-10-.03

ADEM Admin. Code R.
335-3-10-.03

Phosgene Production Unit Provisos

Federally Enforceable Provisos	Regulations
<i>Compliance and Performance Test Methods and Procedures Continued</i>	
<p>4. Compliance with the VOC emission limits for the Phosgene Production Unit shall be determined by Reference Method 25 or 25A or Reference Method 18 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code R. 335-3-10-.03</p>
<p>5. Compliance with the PM₁₀ emission limits for the Phosgene Production Unit shall be determined by Reference Method 201 or 201A in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code R. 335-3-10-.03</p>
<i>Emission Monitoring</i>	
<p>1. In order to ensure that emission points M-90 and M-92 are in compliance with their respective particulate emission limits, the permittee shall replace the bags on an annual basis. The permittee shall also inspect points M-90 and M-92 for visible emissions on a weekly basis while the plant is operating. If any visible emissions are noted, the permittee shall initiate corrective actions within 24 hours.</p>	<p>ADEM Admin. Code R. 335-3-16-.05</p>
<p>2. Whenever tail gas is being fed to emission point P-17, or P-18, in order to ensure that each such emission point is in compliance with its respective emission limit for CO and with the compliance assurance monitoring requirements of 40 CFR Part 64, the permittee shall operate monitoring equipment that is capable of continuously determining whether the flare is lit.</p>	<p>ADEM Admin. Code R. 335-3-16-.05 and 40 CFR Part 64</p>
<p>3. In order to ensure that emission points P-17 and P-18 are in compliance with the emission limit for SO₂, SABIC will adhere to the monitoring plan dated April 28, 2014 submitted with the application. Under the plan, the permittee will monitor certain parameters from the following points that are routed to either the Tail Gas Flare (P-17) or Reformer Flare (P-18): CO Generator emergency vents (16), CO bag filter overpressure protection valve, adsorber regeneration gas vents (3), and CO to dryers/mixing tee high pressure vent.</p>	<p>ADEM Admin. Code R. 335-3-16-.05 and 40 CFR Part 64</p>

Phosgene Production Unit Provisos

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<i>Emission Monitoring Continued</i>	
4. In order to ensure that emission point P-700 is in compliance with its emission limit for SO ₂ and with the compliance assurance monitoring requirements of 40 CFR Part 64, the permittee shall monitor the liquid flow rate in the scrubber whenever the sulfur adsorbers are being regenerated and record a measurement at least once per hour.	ADEM Admin. Code R. 335-3-16-.05 and 40 CFR Part 64
5. In order to ensure that emission point P-700 is in compliance with its emission limits for PM ₁₀ , VOC, NO _x , and CO, the incinerator shall fire only natural gas.	ADEM Admin. Code R. 335-3-16-.05
6. The permittee shall monitor the phosgene concentration of the outlet stream of the Tail Gas Scrubber at least once every 15 minutes using a phosgene analyzer, as specified in the facility's approved alternative monitoring plan for compliance with 40 CFR Part 63, Subpart YY.	ADEM Admin. Code R. 335-3-10-.02 (66) & 335-3-11-.06 (50)
7. The permittee shall maintain and calibrate the Tail Gas Scrubber's two phosgene analyzers in conjunction with the replacement of the tape cartridges in the analyzers, as specified in the facility's approved alternative monitoring plan for compliance with 40 CFR Part 63, Subpart YY.	ADEM Admin. Code R. 335-3-10-.02 (66) & 335-3-11-.06 (50)
<i>Recordkeeping and Reporting Requirements</i>	
1. The permittee shall keep records of when the bags are replaced on emission points M-90 and M-92. All records shall be readily available, and shall be kept in a form suitable for inspection for 5 years.	ADEM Admin. Code R. 335-3-16-.05
2. The permittee shall keep records of any time that the unit is operating and the flares (P-17 or P-18) are not lit. Records shall be maintained of the reason and duration of the outage. All records shall be readily available, and shall be kept in a form suitable for inspection for 5 years. The permittee shall also notify the Department of any such occurrence in the Title V semi-annual report.	ADEM Admin. Code R. 335-3-16-.05

Phosgene Production Unit Provisos

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Recordkeeping and Reporting Requirements Continued

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| <p>3. The permittee shall maintain records of the weekly visual inspections of emission points M-90 and M-92. The records shall be kept in a form suitable for inspection for five years. The presence of any visible emissions from either point shall be recorded and reported in the Title V semi-annual report.</p> | <p>ADEM Admin. Code R. 335-3-16-.05</p> |
| <p>4. The permittee shall calculate the daily average flow rate of the scrubber associated with P-700 by summing the hourly flow rates and dividing by the number of operating hours the sulfur adsorbers were being regenerated during that day. An hourly flow rate shall consist of the average of all readings taken during the hour. A deviation shall be defined as each instance when the daily average flow rate falls below 210 gallons per minute. All deviations shall be recorded, including the cause and the duration, and shall be reported in the Title V semi-annual report. All records shall be kept up-to-date, readily available, and in a form suitable for inspection for a period of 5 years.</p> | <p>ADEM Admin. Code R. 335-3-16-.05</p> |
| <p>5. The permittee shall keep records of the 3-hour rolling average of the phosgene concentration at the outlet of the Tail Gas Scrubber in accordance with the facility's alternative monitoring plan for 40 CFR Part 63, Subpart YY. These records shall include each occurrence when the 3-hour rolling average exceeds 1.0 ppmv, and the reason for and duration of all deviations, and shall be kept up-to-date, readily available, and in a form suitable for inspection for a period of 5 years</p> | <p>ADEM Admin. Code R. 335-3-11-.06 (50) & 335-3-10-.02 (70)</p> |

Phosgene Production Unit Provisos

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Recordkeeping and Reporting Requirements Continued

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| <p>6. The permittee shall maintain records of the calibrations of the phosgene analyzers associated with the Tail Gas Scrubber. If during calibration, the calibration drift of an analyzer exceeds 5%, the concentration data from the other analyzer shall be used to calculate the 3-hour rolling average, required by Recordkeeping and Reporting Proviso 5 above, for the period beginning from the preceding calibration of the analyzer whose calibration drift exceeded 5% to the point when the same analyzer was re-calibrated after showing excess drift. If the drift of both analyzers exceeds 5%, data will be used from the analyzer with the lower percent drift. These records shall include the dates and results of calibrations in accordance with the facility's approved alternative monitoring plan for 40 CFR Part 63, Subpart YY. These records shall be kept up-to-date, readily available, and in a form suitable for inspection for a period of 5 years.</p> | <p>ADEM Admin. Code R. 335-3-11-.06 (50) & 335-3-10-.02 (70)</p> |
| <p>7. The permittee shall include in the semi-annual reports all 3-hour rolling averages of the phosgene concentration at the outlet of the Tail Gas Scrubber that exceeds 1.0 ppmv in accordance with the unit's alternative monitoring plan for 40 CFR Part 63, Subpart YY.</p> | <p>ADEM Admin. Code R. 335-3-11-.06 (50) & 335-3-10-.02 (70)</p> |
| <p>8. The permittee shall record all periods when the vent stream was diverted from the Tail Gas Scrubber and shall include in the required Title V semiannual reports a list of each calendar day for which the cumulative diversion time exceeded one hour during that day and the total diversion time for that day. These records shall be kept up-to-date, readily available, and in a form suitable for inspection for a period of 5 years</p> | <p>ADEM Admin. Code R. 335-3-14-.04</p> |
| <p>9. The permittee shall submit semi-annual periodic reports in accordance with 40 CFR Part 63, Subpart YY, as referenced in §63.1110(e). These reports shall be submitted no later than 60 days after the end of each 6-month reporting period.</p> | <p>ADEM Admin. Code R. 335-3-11-.06 (50) & 335-3-10-.02 (70)</p> |

Plant No. 2 -- Resin Unit Informational Summary

Description: Resin production unit.

Operating Schedule: 8760 hours/year.

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

40 CFR Part 63, Subpart I and H 40 CFR Part 63, Subpart YY

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
M-99, M-100, M-101, M-102	Baghouses	PM ₁₀	0.004 lbs/hr/point	335-3-14-.04
M-99, M-100, M-101, M-102	Baghouses	VOC	0.11 lbs/hr/point	335-3-14-.04
M-115, M-116, M-118, M-119, M-121, M-122, M-127	Baghouses	PM ₁₀	0.005 lbs/hr/point	335-3-14-.04
M-115, M-116, M-118, M-119, M-121, M-122, M-127	Baghouses	VOC	0.13 lbs/hr	335-3-14-.04
M-120	Baghouse	PM ₁₀	0.011 lbs/hr	335-3-14-.04
M-120	Baghouse	VOC	0.29 lbs/hr	335-3-14-.04
M-125	Baghouse	PM ₁₀	0.005 lbs/hr	335-3-14-.04
M-125	Baghouse	VOC	0.13 lbs/hr	335-3-14-.04
M-128	Baghouse	PM ₁₀	0.012 lbs/hr	335-3-14-.04
M-128	Baghouse	VOC	0.29 lbs/hr	335-3-14-.04
P-80 & 81	Post Dryer Scrubber Vents	PM ₁₀	0.0001 lbs/hr/point	335-3-14-.04
P-710	Post Dryer Scrubber Vent	PM ₁₀	0.0001 lbs/hr	335-3-14-.04
M-136, M-145, M-708	Baghouses	PM ₁₀	0.01 lbs/hr	335-3-14-.04
P-84	Absorber	VOC	2.6 lbs/hr	335-3-14-.04
P-84	Absorber	CO	67.5 lbs/hr	335-3-14-.04
P-902, P-903, P-904, P-905	Scrubbers	PM ₁₀	0.19 lbs/hr/point	335-3-14-.04

Resin 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. The Resin Unit is subject to the Generic MACT for Polycarbonate Production set forth in 40 CFR Part 63, Subpart YY.	ADEM Admin. Code R. 335-3-11-.06 (50)
3. Some equipment within the Resin Unit is subject to the National Emission Standards for Organic Hazardous Air Pollutants for Certain Processes Subject to the Negotiated Regulation for Equipment Leaks set forth in 40 CFR Part 63, Subpart I, which references 40 CFR 63, Subpart H.	ADEM Admin. Code R. 335-3-11-.06 (9) & ADEM Admin. Code R. 335-3-11-.06 (8)
<i>Emission Standards</i>	
1. Such that the standards for Best Available Control Technology shall be met, the following emission limits shall apply:	
<ul style="list-style-type: none"> • the PM₁₀ emission rates from M-99, M-100, M-101 and M-102 shall not exceed 0.004 lbs/hr/point • the VOC emission rates from M-99, M-100, M-101 and M-102 shall not exceed 0.11 lbs/hr/point • the PM₁₀ emission rates from M-115, M-116, M-118, M-119, M-121, M-122, and M-127 shall not exceed 0.005 lbs/hr/point • the VOC emission rates from M-115, M-116, M-118, M-119, M-121, M-122, and M-127 shall not exceed 0.13 lbs/hr/point • the PM₁₀ emission rate from M-120 shall not exceed 0.011 lbs/hr • the VOC emission rate from M-120 shall not exceed 0.29 lbs/hr • the PM₁₀ emission rate from M-125 shall not exceed 0.005 lbs/hr • the VOC emission rate from M-125 shall not exceed 0.13 lbs/hr • the PM₁₀ emission rate from M-128 shall not exceed 0.012 lbs/hr • the VOC emission rate from M-128 shall not exceed 0.29 lbs/hr • the PM₁₀ emission rate from P-80 and P-81 shall not exceed 0.0001 lbs/hr/point • the PM₁₀ emission rate from P-710 shall not exceed 0.0001 lbs/hr • the PM₁₀ emission rate from M-136, M-145, and M-708 shall not exceed 0.01 lbs/hr • the VOC emission rate from P-84 shall not exceed 2.6 lbs/hr • the CO emission rate from P-84 shall not exceed 67.5 lbs/hr • the PM₁₀ emission rate from P-902, P-903, P-904, and P-905 shall not exceed 0.19 lbs/hr/point. 	ADEM Admin. Code R. 335-3-14-.04

Resin Unit Provisos

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<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the carbon monoxide emission limits for the Resin Unit shall be determined by Reference Method 10 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). 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 VOC emission limits for the Resin Unit shall be determined by Reference Methods 18, 25, or 25A in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
3. Compliance with the PM ₁₀ emission limits for the Resin Unit shall be determined by Reference Method 201 or 201A in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
<i>Emission Monitoring</i>	
1. Such that the emission units would not exceed their respective particulate emission limits, the permittee shall replace the bags on the following emission points at least once every three years: <ul style="list-style-type: none">• M-99, M-100, M-101, M-102, M-115, M-116, M-118, M-119, M-120, M-121, M-122, M-125, M-127, M-128, M-136, M-145, and M-708.	ADEM Admin. Code R. 335-3-16-.05
The permittee shall also inspect these points for visible emissions on a weekly basis while the plant is operating. If visible emissions are noted, the permittee shall take corrective action within 24 hours.	ADEM Admin. Code R. 335-3-16-.05

Resin Unit Provisos

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<i>Emission Monitoring Continued</i>	
<p>2. Such that the emission units would not exceed their respective particulate emission limits, the permittee shall monitor the scrubber flow rate for the following emission points whenever the dryer vented to them is operating and records shall be kept of the average hourly flow rate.</p> <p>P-80, P-81, P-710, P-902, P-903, P-904, and P-905.</p>	ADEM Admin. Code R. 335-3-16-.05
<p>3. The permittee shall monitor the flow rate of the scrubber liquid for emission point P-84 on a continuous basis</p>	ADEM Admin. Code R. 335-3-16-.05
<p>4. All equipment in the Resin Unit that is in MeCl₂ service is subject to the monitoring requirements of 40 CFR Part 63, Subpart H as designated by 40 CFR Part 63, Subpart I.</p>	ADEM Admin. Code R 335-3-11-.06 (8)
<p>5. All equipment in the Resin Unit that is in HAP service, other than equipment in MeCl₂ service, is subject to the monitoring requirements of 40 CFR Part 63, Subpart YY, which allows the permittee to comply with either Subpart TT or Subpart UU of 40 CFR Part 63. The permittee has elected to comply with the requirements of 40 CFR Part 63, Subpart TT.</p>	ADEM Admin. Code R 335-3-11-.06 (8)
<i>Recordkeeping and Reporting Requirements</i>	
<p>1. The permittee shall follow the recordkeeping and reporting requirements found in 40 CFR Part 63 Subpart H (as required by 40 CFR Part 63 Subpart I) and in Subpart TT for all equipment subject to those subparts in accordance with 40 CFR 63.192 and 40 CFR 63.1017 and 63.1018, respectively. All records shall be readily available and shall be kept in a form suitable for inspection for 5 years.</p>	ADEM Admin. Code R. 335-3-16-.05
<p>2. The permittee shall maintain records of the dates when the bags for the baghouses on the following emissions points are replaced. All records shall be readily available, and shall be kept in a form suitable for review for a period of 5 years.</p> <ul style="list-style-type: none"> • M-99, M-100, M-101, M-102, M-115, M-116, M-118, M-119, M-120, M-121, M-122, M-125, M-127, M-128, M-136, M-145, and M-708 	ADEM Admin. Code R. 335-3-16-.05

Resin Unit Provisos

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Recordkeeping and Reporting Requirements Continued

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| 3. The permittee shall maintain records of its weekly visual inspections of the above emission points. The records, which may be in the form of a log or a checklist, shall be kept in a form suitable for inspection for five years. The presence of any visible emissions from any of the points shall be recorded and reported in the Title V semi-annual report. The permittee shall also keep a record of the corrective action that it took in the event that visible emissions were noted. | ADEM Admin. Code R. 335-3-16-.05 |
| 4. The permittee shall keep records of the daily average liquid flow rate of the following scrubbers. All records shall be readily available and shall be kept in a form suitable for inspection for 5 years.

• P-80, P-81, P-710, P-902, P-903, P-904, and P-905. | ADEM Admin. Code R. 335-3-16-.05 |
| 5. The facility shall keep records of the daily average liquid flow rate of the scrubber P-84. All records shall be readily available and shall be kept in a form suitable for inspection for 5 years. | ADEM Admin. Code R. 335-3-16-.05 |

Resin Unit Provisos

Federally Enforceable Provisos

Regulations

Recordkeeping and Reporting Requirements Continued

6. For each of the following scrubbers, the permittee shall calculate the daily average flow rate by summing the hourly flow rates and dividing by the number of hours the dryer venting to it operated during that day. An hourly flow rate shall consist of the average of all readings taken during the hour. A deviation shall be defined as any time that the daily average flow rate is less than the respective flow rate listed below. The permittee shall keep records of all deviations and shall report them in the Title V semi-annual report. The permittee shall also keep a record of the corrective action that it took when the daily average flow rate was less than the respective flow rate listed below. All records shall be readily available and shall be kept in a form suitable for inspection for 5 years.
- P-80 -- 600 gallons per minute
 - P-81 -- 600 gallons per minute
 - P-710 -- 680 gallons per minute
 - P-902 -- 70 gallons per minute
 - P-903 -- 70 gallons per minute
 - P-904 -- 70 gallons per minute
 - P-905 -- 70 gallons per minute
 - P-84 -- 60 gallons per minute
7. The permittee shall comply with the recordkeeping and reporting requirements found in 40 CFR Part 63 Subpart YY.

ADEM Admin. Code
R. 335-3-16-.05

Plant No. 3 -- Bisphenol Acetone (BPA) Production Informational Summary

Description: BPA production facility.

Operating Schedule: 8760 hours/year.

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

40 CFR Part 63, Subparts F, G, and H

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
M-96 A, M-96 B, and M-96 C	Flaker Filter Vents	PM ₁₀	0.002 lbs/hr/point	335-3-14-.04
M-96 A, M-96 B, and M-96 C	Flaker Filter Vents	VOC	0.4 lbs/hr/point	335-3-14-.04
M-103	Rail Loading Baghouse	PM ₁₀	0.008 lbs/hr	335-3-14-.04
M-103	Rail Loading Baghouse	VOC	0.21 lbs/hr	335-3-14-.04
M-703	Rail Loading Baghouse	PM ₁₀	0.007 lbs/hr	335-3-14-.04
M-703	Rail Loading Baghouse	VOC	0.19 lbs/hr	335-3-14-.04
M-701	Flaker Filter Vent	PM ₁₀	0.004 lbs/hr	335-3-14-.04
M-701	Flaker Filter Vent	VOC	0.72 lbs/hr	335-3-14-.04
P-600	Process Vent Incinerator	VOHAP	20 ppmV or 98% reduction	335-3-11-.06(6)
P-607	Process Vent Incinerator	VOHAP	20 ppmV or 98% reduction	335-3-11-.06(6)

BPA Production 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. The BPA Production Unit is subject to the Hazardous Organic NESHAP as set forth in 40 CFR Part 63, Subparts F, G, and H.	ADEM Admin. Code R. 335-3-11-.06 (5), (6), & (7)
<i>Emission Standards</i>	
1. Such that the standards for Best Available Control Technology shall be met, the following emission limits shall apply: <ul style="list-style-type: none"> • the PM₁₀ emission rate from M-96 A, M-96 B, and M-96 C shall not exceed 0.002 lbs/hr/point. • the VOC emission rate from M-96 A, M-96 B, and M-96 C shall not exceed 0.4 lbs/hr/point. • the PM₁₀ emission rate from M-103 shall not exceed 0.008 lbs/hr. • the VOC emission rate from M-103 shall not exceed 0.21 lbs/hr. the PM₁₀ emission rate from M-703 shall not exceed 0.007 lbs/hr. • the VOC emission rate from M-703 shall not exceed 0.19 lbs/hr. • the PM₁₀ emission rate from M-701 shall not exceed 0.004 lbs/hr. • the VOC emission rate M-701 shall not exceed 0.72 lbs/hr. 	ADEM Admin. Code R. 335-3-14-.04
2. The Process Vent Incinerator (P-600) is the designated control device for a Group 1 process vent as defined in 40 CFR 63.111. As such, P-600 is required to reduce emission of total organic hazardous air pollutants by 98 weight-percent or to a concentration of 20 parts per million by volume, whichever is less stringent. Since P-600 is a combustion device, the emission reduction, or concentration, shall be calculated on a dry basis, corrected to 3-percent oxygen, and compliance can be determined by measuring either organic hazardous air pollutants or total organic carbon using the procedures described in 40 CFR 63.116 (40 CFR 63.113(a)(2)).	ADEM Admin. Code R. 335-3-11-.06 (6)

BPA Production Unit Provisos

Federally Enforceable Provisos	Regulations
<i>Emission Standards continued</i>	
<p>3. Both the BPA Incinerator (P-600) and the BPA VCU (P-607) are designated control devices for a Group 1 process vent as defined in 40 CFR 63.111. At any given time, only one of the two designated control devices is required by 40 CFR 63.113(a)(2) to reduce emissions of total organic hazardous air pollutants by 98 weight-percent or to a concentration of 20 parts per million by volume, whichever is less stringent. Since P-607 is a combustion device, the emission reduction, or concentration, shall be calculated on a dry basis, corrected to 3-percent oxygen, and compliance can be determined by measuring either organic HAPs or total organic carbon using the procedures described in 40 CFR 63.116 (40 CFR 63.113(a)(2)).</p>	<p>ADEM Admin. Code R. 335-3-11-.06 (6)</p>
<i>Compliance and Performance Test Methods and Procedures</i>	
<p>1. Compliance with the VOHAP emission limit for the BPA Production Unit shall be determined using the procedures designated in 40 CFR 63.116(c)(1) through 63.116(c)(4).</p>	<p>ADEM Admin. Code R. 335-3-11-.06 (6)</p>
<p>2. Compliance with the PM₁₀ emission limits for the BPA Production Unit shall be determined by Reference Method 201 or 201A in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code R. 335-3-10-.03</p>
<p>3. Compliance with the VOC emission limits for the BPA Production Unit shall be determined by Reference Method 18, 25, or 25A in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code R. 335-3-10-.03</p>
<i>Emission Monitoring</i>	
<p>1. The permittee must follow the monitoring requirements of 40 CFR 63.114 (a)(1)(i), (d), and (e) for the incinerator (P-600) and the BPA VCU (P-607). The incinerator and VCU shall each be equipped with a temperature-monitoring device equipped with a continuous recorder. The monitoring device shall be installed in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs.</p>	<p>ADEM Admin. Code R. 335-3-11-.06 (6)</p>

BPA Production Unit Provisos

Federally Enforceable Provisos	Regulations
<i>Emission Monitoring continued</i>	
2. The permittee must follow the monitoring requirements of 40 CFR Part 63 Subpart H for all equipment subject to this subpart. (40 CFR 63.162 – 63.180)	ADEM Admin. Code R 335-3-11-.06 (7)
3. In order to ensure that emission points M-96 A, M-96 B, M-96 C, M-103, M-701 and M-703 are in compliance with their respective emission limits for PM ₁₀ , the permittee shall replace the bags for each point at least once every three years.	ADEM Admin. Code R. 335-3-16-.05
4. The permittee shall inspect emission points M-96 A, M-96 B, M-96 C, M-103, M-701 and M-703 for visible emissions weekly while the emission unit is operating. If visible emissions are detected, the permittee shall initiate corrective action within 24 hours.	ADEM Admin. Code R. 335-3-16-.05
5. The permittee must follow the heat exchange system monitoring requirements of 40 CFR Part 63 Subpart F. (40 CFR 63.104)	ADEM Admin. Code R 335-3-11-.06 (5)
6. The permittee must follow the maintenance wastewater management requirements of 40 CFR Part 63 Subpart F. (40 CFR 63.105)	ADEM Admin. Code R 335-3-11-.06 (5)
<i>Recordkeeping and Reporting Requirements</i>	
1. The permittee shall comply with the recordkeeping and reporting requirements set forth in 40 CFR 63.118 for the Process Vent Incinerator (P-600) and BPA VCU (P-607). SABIC shall also comply with the requirements of 40 CFR 63.151 (Initial Notification) and 40 CFR 63.152 (General Reporting and Continuous Records), as stated in 40 CFR 63.112 (e)(1). All records shall be readily available, and shall be kept in a form suitable for inspection for a period of 5 years.	ADEM Admin. Code R. 335-3-11-.06 (6)
2. The Subpart G Periodic Reports shall be submitted semi-annually no later than 60 days after the end of each 6-month period as required by 40 CFR 63.152(c)(1) and include all information listed in 40 CFR 63.152(c)(2-4).	ADEM Admin. Code R. 335-3-11-.06 (6)

BPA Production Unit Provisos

Federally Enforceable Provisos	Regulations
<i>Recordkeeping and Reporting Requirements continued</i>	
3. The permittee shall comply with the recordkeeping and reporting requirements set forth in 40 CFR Part 63, Subpart H for all equipment subject to these requirements. All records shall be readily available, and shall be kept in a form suitable for inspection for a period of 5 years.	ADEM Admin. Code R. 335-3-11-.06 (6)
4. The permittee shall keep records of when the bags are replaced on emission points M-96 A, M-96 B, M-96 C, M-103, M-701 and M-703. All records shall be readily available, and shall be kept in a form suitable for inspection for a period of 5 years.	ADEM Admin. Code R. 335-3-16-.05
5. The permittee shall keep records of the weekly visual emission inspections. The records, which may be in the form of a log or a checklist, shall be kept in a form suitable for inspection for a period of 5 years. The presence of visible emissions shall be reported in the Title V semi-annual report. The permittee shall also keep a record of the corrective action taken in the event that visible emissions were noted.	ADEM Admin. Code R. 335-3-16-.05
6. The permittee must follow the heat exchange system recordkeeping and reporting requirements of 40 CFR Part 63 Subpart F (40 CFR 63.104).	ADEM Admin. Code R 335-3-11-.06 (5)
7. The permittee must follow the maintenance wastewater recordkeeping and reporting requirements of 40 CFR Part 63 Subpart F (40 CFR 63.105).	ADEM Admin. Code R 335-3-11-.06 (5)

Plant No. 4 -- Finishing Unit Informational Summary

Description: Finishing Unit

Operating Schedule: 8760 hours/year.

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

None Applicable

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
M-174 & M-174S	Baghouses	PM ₁₀	0.4 lbs/hr/point	335-3-14-.01
M-175	Baghouse	PM ₁₀	0.08 lbs/hr	335-3-14-.04
M-176, M-177, M-178, M-179, M-188, & M-189	Baghouses	PM ₁₀	0.044 lbs/hr/point	335-3-14-.04
M-181 & M-186	Baghouses	PM ₁₀	0.063 lbs/hr/point	335-3-14-.04
M-182, M-184, M-185, M-200, & M-201	Baghouses	PM ₁₀	0.05 lbs/hr/point	335-3-14-.04
M-183	Baghouse	PM ₁₀	0.038 lbs/hr	335-3-14-.04
M-190 & M-190S	Baghouses	PM ₁₀	0.169 lbs/hr/point	335-3-14-.04
M-192 & M-193	Bin Vents	PM ₁₀	0.001 lbs/hr/point	335-3-14-.04
M-303	Baghouse	PM ₁₀	0.08 lbs/hr	335-3-14-.04
M-230, M-232, & M-233	Rotoclones	PM ₁₀	0.03 lbs/hr/point	335-3-14-.04
M-232A & M-233A	Rotoclones	PM ₁₀	0.005 lbs/hr/point	335-3-14-.04
M-650	Rotoclone	PM ₁₀	0.003 lbs/hr	335-3-14-.04
M-246, M-247, M-248, M-249, & M-250	Vacuum Pumps	PM ₁₀	0.06 lbs/hr/point	335-3-14-.04
M-254	Baghouse	PM ₁₀	0.04 lbs/hr	335-3-14-.04
M-231, M-256, & M-305	Rotoclones	PM ₁₀	0.01 lbs/hr/point	335-3-14-.04
M-257	Rotoclone	PM ₁₀	0.02 lbs/hr	335-3-14-.04
M-258 & M-258S	Baghouses	PM ₁₀	0.029 lbs/hr/point	335-3-14-.04
M-266, M-267, & M-268	Baghouses	PM ₁₀	0.004 lbs/hr/point	335-3-14-.04

Pollutants Emitted Continued

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
M-270, M-271, M-273, & M-274	Baghouses	PM ₁₀	0.11 lbs/hr/point	335-3-14-.04
M-271S, M-274S	Transfer Blowers	PM ₁₀	0.01 lbs/hr/point	
P-88, P-89, P-92, P-93, P-96, & P-102	Extruder Vents	PM ₁₀	0.134 lbs/hr/point	335-3-14-.04
P-90	Extruder Vents	PM ₁₀	0.142 lbs/hr	335-3-14-.04
P-94	Extruder Vents	PM ₁₀	0.19 lbs/hr	335-3-14-.04
P-98	Extruder Vents	PM ₁₀	0.19 lbs/hr	335-3-14-.04
P-104	Extruder Vents	PM ₁₀	0.022 lbs/hr	335-3-14-.04
P-106	Extruder Vents	PM ₁₀	0.016 lbs/hr	335-3-14-.04
P-108, P-109, P-112, P-801	Extruder Vents	PM ₁₀	0.066 lbs/hr/point	335-3-14-.04
P-110 & P-111	Extruder Vents	PM ₁₀	0.001 lbs/hr/point	335-3-14-.04
P-808	Rotoclone	PM ₁₀	0.064 lbs/hr	335-3-14-.04
P-88, P-89, P-92, P-93, & P-102	Extruder Vents	VOC	0.220 mg VOC/liter stack gas (1.24 lb/hr/point)	335-3-14-.04
P-90	Extruder Vent	VOC	0.254 mg VOC/liter stack gas (1.43 lb/hr)	335-3-14-.04
P-94	Extruder Vent	VOC	4.85 lbs/hr	335-3-14-.04
P-96	Extruder Vent	VOC	0.221 mg VOC/liter stack gas (1.24 lb/hr)	335-3-14-.04
P-98	Extruder Vent	VOC	4.85 lbs/hr	335-3-14-.04
P-104	Extruder Vent	VOC	0.051 mg VOC/liter stack gas (0.19 lb/hr)	335-3-14-.04
P-106	Extruder Vent	VOC	0.043 mg VOC/liter stack gas (0.16 lb/hr)	335-3-14-.04
P-108, P-109, P-112, P-801	Extruder Vents	VOC	0.108 mg VOC/liter stack gas (0.61 lb/hr/point)	335-3-14-.04
P-110 & P-111	Extruder Vents	VOC	0.220 mg VOC/liter stack gas (1.24 lb/hr/point)	335-3-14-.04

Finishing 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
<i>Emission Standards</i>	
1. The Finishing Unit Extrusion Lines 2, 4, 6, and 8 (Emission Points P-90, P-94, P-98, and P-102) shall not operate without venting to the High-Efficiency Air Filter (HEAF) units for control	ADEM Admin. Code R. 335-3-14-.04
2. Acrylonitrile-butadiene-styrene (ABS) resin shall only be processed on Extrusion Lines 4 or 6.	
3. Such that the major source threshold for the Prevention of Significant Deterioration (PSD) regulations shall not be exceeded, the following particulate emission standards shall not be exceeded:	ADEM Admin. Code R. 335-3-14-.01
<ul style="list-style-type: none"> • M-174 & M-174S -- 0.4 lbs/hr/point 	
4. Such that the standards for Best Available Control Technology shall be met, the following VOC emission standards shall not be exceeded:	ADEM Admin. Code R. 335-3-14-.04
<ul style="list-style-type: none"> • P-88, P-89, P-92, P-93, & P-102-- 0.220 mg VOC/liter of stack gas (1.24 lb/hr/point) • P-90 – 0.254 mg VOC/liter of stack gas (1.43 lb/hr) • P-94 – 4.85 lb/hr • P-96 – 0.221 mg VOC/liter of stack gas (1.24 lb/hr) • P-98 – 4.85 lb/hr • P-104 – 0.051 mg VOC/liter of stack gas (0.19 lb/hr) • P-106 – 0.043 mg VOC/liter of stack gas (0.16 lb/hr) • P-108, P-109, P-112, & P-801 – 0.108 mg VOC/liter of stack gas (0.61 lb/hr/point) • P-110 & P-111 – 0.220 mg VOC/liter of stack gas (1.24 lb/hr/point) 	
5. The permittee shall limit the hours of operation of the recycle powder system (M-183) to 2,628 hours per 12-month rolling period.	ADEM Admin. Code R. 335-3-14-.04
6. The total VOC emissions from the Finishing Plant’s extruder vents shall not exceed 19.5 tons per twelve-month period.	ADEM Admin. Code R. 335-3-16-.05

Finishing Unit Provisos

Federally Enforceable Provisos

Regulations

Emission Standards Continued

7. Such that the standards for Best Available Control Technology shall be met, the following PM₁₀ emission standards shall not be exceeded:

- M-175 – 0.08 lbs/hr
- M-176, M-177, M-178, M-179, M-188, & M-189 -- 0.044 lbs/hr/point
- M-181 & M-186 – 0.063 lbs/hr/point
- M-182, M-184, M-185, M-200, & M-201 – 0.05 lbs/hr/point
- M-183 – 0.038 lb/hr
- M-190 & M-190S -- 0.169 lbs/hr/point
- M-192 & M-193 -- 0.001 lbs/hr/point
- M-303 – 0.08 lbs/hr
- M-230, M-232 & M-233 -- 0.03 lbs/hr/point
- M-232A & M233A -- 0.005 lbs/hr/point
- M-650 -- 0.003 lbs/hr
- M-246, M-247, M-248, M-249 & M-250 -- 0.06 lbs/hr/point
- M-254 --0.04 lbs/hr
- M-231, M-256, & M-305—0.01 lbs/hr/point
- M-257 -- 0.02 lbs/hr
- M-258 & M-258S -- 0.029 lbs/hr/point
- M-266, M-267, & M-268 -- 0.004 lbs/hr/point
- M-270, M-271, M-273 & M-274 -- 0.11 lbs/hr/point
- M-271S & M-274S -- 0.01 lb/hr/point
- P-88, P-89, P-92, P-93, P-96, & P-102 -- 0.134 lbs/hr/point
- P-90 -- 0.142 lbs/hr
- P-94 -- 0.19 lbs/hr
- P-98 – 0.19 lbs/hr
- P-104 – 0.022 lbs/hr
- P-106 – 0.016 lbs/hr
- P-108, P-109, P-112, & P-801 – 0.066 lbs/hr/point
- P-110 & P-111 – 0.001 lbs/hr/point
- P-808 – 0.064 lbs/hr

Compliance and Performance Test Methods and Procedures

1. Compliance with the VOC emission limits for the Finishing Unit shall be determined by Reference Method 18 or Method 25 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.

ADEM Admin. Code
R. 335-3-14-.04

ADEM Admin. Code
R. 335-3-10-.03

Finishing Unit Provisos

Federally Enforceable Provisos	Regulations
<p><i>Compliance and Performance Test Methods and Procedures Continued</i></p>	
<p>2. Compliance with the PM₁₀ and PM_{2.5} emission limits for the Finishing Unit shall be determined by Method 201/201A in Appendix M of 40 CFR 51. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code R. 335-3-10-.03</p>
<p><i>Emission Monitoring</i></p>	
<p>1. In order to ensure that the emission units emitting through the following emission points are in compliance with their respective particulate emission limits, the permittee shall replace the bags once every 2 calendar years, not to exceed 30 months between changes:</p>	<p>ADEM Admin. Code R. 335-3-16-.05</p>
<ul style="list-style-type: none"> • M-174, M-174S, M-176, M-177, M-178, M-179, M-181, M-182, M-183, M-184, M-185, M-186, M-188, M-189, M-190, M-190S, M-200, M-201, M-254, M-258, M-258S, M-270, M-271, M-273, and M-274. 	
<p>2. In order to ensure that the emission units emitting through emission points M-175 and M-303 are in compliance with their respective particulate emission limits, the permittee shall replace their filters at least once every five years.</p>	<p>ADEM Admin. Code R. 335-3-16-.05</p>
<p>3. In order to ensure that the emission units emitting through emission points M-266, M-267, and M-268 are in compliance with their respective particulate emission limits, the permittee shall replace the filters once every 2 calendar years, not to exceed 30 months between changes.</p>	<p>ADEM Admin. Code R. 335-3-16-.05</p>
<p>4. The permittee shall inspect each particulate emission point for particulate visible emissions weekly while the emission unit is in operation. If particulate visible emissions are noted, the permittee shall initiate corrective action within 24 hours.</p>	<p>ADEM Admin Code R. 335-3-16-.05</p>
<p>5. The permittee shall monitor the number of hours that the recycle system (M-183) operates during each calendar month. The permittee shall calculate a 12-month rolling average of the hours of operation of the recycle powder system.</p>	<p>ADEM Admin Code R. 335-3-16-.05</p>

Finishing Unit Provisos

Federally Enforceable Provisos	Regulations
<i>Recordkeeping and Reporting Requirements</i>	
<p>1. The permittee shall keep records of when the bags are replaced on the following emission points. These records shall be readily available, and shall be kept in a form suitable for inspection for at least 5 years.</p> <ul style="list-style-type: none"> • M-174, M-174S, M-176, M-177, M-178, M-179, M-181, M-182, M-183, M-184, M-185, M-186, M-188, M-189, M-190, M-190S, M-200, M-201, M-254, M-258, M-258S, M-270, M-271, M-273, and M-274 	ADEM Admin. Code R. 335-3-16-.05
<p>2. The permittee shall keep records of when the filters are replaced for emission points M-175 and M-303. This record should be readily available and shall be kept in a form suitable for inspection for at least 5 years.</p>	ADEM Admin. Code R. 335-3-16-.05
<p>3. The permittee shall keep records of when the filters are replaced for emission points M-266, M-267, and M-268. These records shall be readily available and shall be kept in a form suitable for inspection for at least 5 years.</p>	ADEM Admin. Code R. 335-3-16-.05
<p>4. The permittee shall maintain records of the weekly visual inspections of each particulate emission point that is a part of the Finishing Unit. The records, which may be in the form of a log or a checklist, shall be kept in a form suitable for inspection for five years. The presence of particulate visible emissions from any of these points shall be recorded and reported in the Title V semi-annual report. The permittee shall also keep a record of corrective actions taken in the event that particulate visible emissions were noted.</p>	ADEM Admin. Code R. 335-3-16-.05
<p>5. The permittee shall keep records of the number of hours that the recycle powder system (M-183) operates during each calendar month and of the 12-month rolling average. These records shall be readily available and shall be kept in a form suitable for inspection for at least 5 years.</p>	ADEM Admin. Code R. 335-3-16-.05
<p>6. This permittee shall maintain records of the VOC emissions from the Finishing Unit's extruder vents on a 12-month rolling average basis. These records shall be readily available and shall be kept in a form suitable for inspection for at least 5 years. The average annual emission rate for each month shall be reported in the Title V semi-annual report.</p>	ADEM Admin. Code R. 335-3-16-.05

Plant No. 5 -- Brine Recovery Unit Informational Summary

Description: Brine Recovery Unit.

Operating Schedule: 8760 hours/year.

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

None Applicable

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
P-42	Stripper Mist Eliminator	VOC	4.4 lbs/hr	335-3-14-.04

Brine Recovery 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
<i>Emission Standards</i>	
1. Such that the standards for Best Available Control Technology shall be met, the following emission standards shall apply: <ul style="list-style-type: none"> • The VOC emission rate from P-42 shall not exceed 4.4 lbs/hr. 	ADEM Admin. Code R. 335-3-14-.04
<i>Compliance and Performance Test Methods and Procedures Continued</i>	
1. Compliance with the VOC emission limit at emission point P-42 shall be determined by Reference Method 25 or 25A in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
<i>Emission Monitoring</i>	
1. In order to ensure that the VOC emission limit is not exceeded, the permittee shall monitor the inlet triethylamine (TEA) concentration to emission point P-42 at least once per day.	ADEM Admin. Code R. 335-3-16-.05
<i>Recordkeeping and Reporting Requirements</i>	
1. The permittee shall calculate, and maintain records of, the average daily TEA concentration at the air stripper inlet. The average shall consist of either the value of the reading for that day (if only one reading is taken for the day) or the average of all readings for the day. For any day that the average daily TEA concentration exceeds 15 ppm by weight, the permittee shall record the reason for the deviation. Records shall be kept up-to-date, readily available, and in a form suitable for inspection for a period of 5 years. Any such occurrence shall be documented in the semi-annual report.	ADEM Admin. Code R. 335-3-16-.05

Storage Tanks Informational Summary

Description: Storage tanks that are subject to MACTs, NESHAPs, or NSPSs.

Operating Schedule: 8760 hours/year.

This unit contains storage tanks that are subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 63, Subpart G
40 CFR Part 63, Subpart YY

Pollutants Emitted

Tank Number	Size of Tank (gallons)	Material in Tank	Standard
V-1010	15,220	Methyl Isobutyl Ketone	335-3-11-.06 (6)
V-1060	488,800	Phenol	335-3-11-.06 (6)
V-1061	488,800	Phenol	335-3-11-.06 (6)
V-1110	25,000	Methylene Chloride	335-3-11-.06 (50)
V-1111	25,000	Methylene Chloride	335-3-11-.06 (50)
V-2110	25,000	Methylene Chloride	335-3-11-.06 (50)

Storage Tanks 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. Storage tanks V-1110, V-1111, and V-2110, which are located in the Resin Unit, are subject to the GMACT for Polycarbonate Production, which is set forth in 40 CFR Part 63, Subpart YY.	ADEM Admin. Code R. 335-3-11-.06 (50)
3. Storage tanks V-1010, V-1060, and V-1061, which are located in the BPA Production Unit, are subject to the National Emission Standards for Hazardous Air Pollutants for SOCOMI facilities for Process Vents, Storage Vessels, Transfer Operations, and Wastewater, which is set forth in 40 CFR Part 63, Subpart G. These are Group 2 tanks as defined in this subpart.	ADEM Admin. Code R. 335-3-11-.06 (6)
<i>Emissions Standards</i>	
1. Storage tanks V-1110, V-1111, and V-2110 shall be equipped with closed vent systems that route emissions back to the process and meet the requirements of 40 CFR Part 63, Subpart SS as specified in §63.982(d) in accordance with 40 CFR Part 63, Subpart YY, as specified in Table 5 of §63.1103(d).	ADEM Admin. Code R. 335-3-11-.06 (44) referenced by 335-3-11-.06 (50)
2. Storage tanks V-1010, V-1060, and V-1061 are subject to 40 CFR Part 63, Subpart G for Group 2 storage tanks. As such, the permittee shall comply with the recordkeeping requirements in §63.123 and is not required to comply with any other provisions in §63.119 through §63.123.	ADEM Admin. Code R. 335-3-11-.06 (6)
<i>Compliance and Performance Test Methods</i>	
None	

Storage Tanks Provisos

Federally Enforceable Provisos	Regulations
<i>Emissions Monitoring</i>	
None	
<i>Recordkeeping and Reporting Requirements</i>	
1. Storage tanks V-1010, V-1060, and V-1061 shall comply with the recordkeeping requirements for Group 2 tanks set forth in §63.123(a). These records shall be kept up-to-date, readily available, and in a form suitable for inspection for a period of 5 years.	ADEM Admin. Code R. 335-3-11-.06 (6)
2. Storage tanks V-1110, V-1111, and V-2110 shall comply with the recordkeeping and reporting requirements for 40 CFR Part 63, Subpart SS, as specified in 40 CFR 63.984, 63.998, and 63.999 in accordance with 40 CFR Part 63, Subpart YY as specified in §63.1103(d). These records shall be kept up-to-date, readily available, and in a form suitable for inspection for a period of 5 years.	ADEM Admin. Code R. 335-3-11-.06 (44) referenced by 335-3-11-.06 (50)

20 MMBTU/HR Hot Oil Furnace Informational Summary

Description: 20 MMBTU/HR natural gas fired hot oil furnace (F-11) associated with the BPA production unit.

Operating Schedule: 8760 hours/year.

This unit is subject to the following NSPSs, NESHAPs, or MACTs

40 CFR 63 DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
F-11	Hot Oil Furnace	PM ₁₀	0.1 lbs/hr or 0.005 lbs/mmbtu	335-3-14-.04
F-11	Hot Oil Furnace	SO ₂	0.01 lbs/hr or 0.0005 lbs/mmbtu	335-3-14-.04
F-11	Hot Oil Furnace	NO _x	1.2 lbs/hr or 0.06 lbs/mmbtu	335-3-14-.04
F-11	Hot Oil Furnace	CO	0.6 lbs/hr or 0.03 lbs/mmbtu	335-3-14-.04
F-11	Hot Oil Furnace	VOC	0.1 lb/hr or 0.005 lbs/mmbtu	335-3-14-.04

20 MMBTU/HR Hot Oil Furnace 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 hot oil furnace is subject to Best Available Control Technology limitations for CO, SO ₂ , NO _x , VOC and PM ₁₀ .	ADEM Admin. Code R. 335-3-14-.04
3. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-11-.06 (107), "National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" (40 CFR 63, Subpart DDDDD).	ADEM Admin. Code R. 335-3-11-.06 (107)
<i>Emission Standards</i>	
1. Such that the standards for Best Available Control Technology shall be met, the following emission limits shall apply: <ul style="list-style-type: none"> • The PM-10 emission rate from F-11 shall not exceed 0.1 lbs/hr or 0.005 lbs/mmbtu • The SO₂ emission rate from F-11 shall not exceed 0.01 lbs/hr or 0.0005 lbs/mmbtu • The NO_x emission rate from F-11 shall not exceed 1.2 lbs/hr or 0.06 lbs/mmbtu • The CO emission rate from F-11 shall not exceed 0.6 lbs/hr or 0.03 lbs/mmbtu • The VOC emission rate from F-11 shall not exceed 0.005 lbs/mmbtu 	ADEM Admin. Code R. 335-3-14-.04
2. In order to ensure that F-11 is in compliance with its emission limits, this unit shall fire only natural gas.	ADEM Admin. Code R. 335-3-14-.04

20 MMBTU/HR Hot Oil Furnace Provisos

Federally Enforceable Provisos	Regulations
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the nitrogen oxides emission limits of this unit shall be determined by Reference Method 7 or 7E in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). 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 CO emission rates of this unit shall be determined by Reference Method 10 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
3. Compliance with the VOC emission rates of this unit shall be determined by Reference Method 25 or 25A or 25B in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
4. Compliance with the PM ₁₀ emission rates of this unit shall be determined by Reference Method 201A and 202 in Appendix M of 40 CFR 51 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
5. Compliance with the sulfur dioxide emission rates of this unit shall be determined by EPA Reference Method 6 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
6. Compliance with the work practice standards of Table 3 to Subpart DDDDD shall be demonstrated by performing annual tune-up as specified in 63.7540(a)(10)(i) through (a)(10)(vi).	ADEM Admin. Code R. 335-3-11-.06 (107)

20 MMBTU/HR Hot Oil Furnace Provisos

Federally Enforceable Provisos	Regulations
<i>Emission Monitoring</i>	
None Applicable.	
<i>Recordkeeping and Reporting Requirements</i>	
1. The permittee shall keep records of all types of fuels fired in F-11. If anything other than natural gas is fired, the permittee shall notify the Department immediately. These records shall be kept up-to-date, readily available, and in a form suitable for inspection for a period of 5 years.	ADEM Admin. Code R. 335-3-16-.05

No. 1 and No. 2 Boilers Informational Summary

Description: Two 99.6 MMBTU/HR package boilers (F-104 and F-105), which share a common stack

Operating Schedule: 8760 hours/year.

Fuels Used: BPA Tar, Natural Gas, Fuel Oil, and Hydrogen Off-Gas

This unit is subject to the following NSPSs, NESHAPs, or MACTs: **None**

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
Common Stack for F-105 and F-105	Two 99 MMBTU/HR Boilers	PM	2.9 lbs/hr and 0.015 lbs/mmbtu (combined)	335-3-14-.04
	Two 99 MMBTU/HR Boilers	SO ₂	105.6 lbs/hr and 0.53 lbs/mmbtu (combined)	335-3-14-.04
	Two 99 MMBTU/HR Boilers	NO _x	29.6 lbs/hr and 0.15 lbs/mmbtu (combined)	335-3-14-.04
	Two 99 MMBTU/HR Boilers	CO	7.3 lbs/hr and 0.04 lbs/mmbtu (combined)	335-3-14-.04
Common Stack for F-105 and F-105 firing BPA Tar	Two 99 MMBTU/HR Boilers	Cadmium	0.023 mg/dscm	335-3-3-.05(6)
	Two 99 MMBTU/HR Boilers	CO	35 ppmv (dry)	335-3-3-.05(6)
	Two 99 MMBTU/HR Boilers	Dioxins and Furans (toxic equivalency basis)	0.32 ng/dscm	335-3-3-.05(6)
	Two 99 MMBTU/HR Boilers	HCl	14 ppmv (dry)	335-3-3-.05(6)
	Two 99 MMBTU/HR Boilers	Lead	0.096 mg/dscm	335-3-3-.05(6)
	Two 99 MMBTU/HR Boilers	Mercury	0.0024 mg/dscm	335-3-3-.05(6)
	Two 99 MMBTU/HR Boilers	NO _x	76 ppmv (dry)	335-3-3-.05(6)
	Two 99 MMBTU/HR Boilers	Particulate Matter	110 mg/dscm	335-3-3-.05(6)
	Two 99 MMBTU/HR Boilers	SO ₂	720 ppmv (dry)	335-3-3-.05(6)
	Two 99 MMBTU/HR Boilers	Fugitive Ash	VE for no more than 5% of the hourly observation period	335-3-3-.05(6)

No. 1 and No. 2 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. Each boiler is subject to Best Available Control Technology limitations for CO, SO ₂ , NO _x , and PM.	ADEM Admin. Code R. 335-3-14-.04
3. Each boiler is subject to the applicable requirements of ADEM Admin. Code R. 335-3-3-.05 (6), "Incineration of Commercial and Industrial Solid Waste."	ADEM Admin. Code R. 335-3-3-.05 (6)
<i>Emission Standards</i>	
1. Such that the standards for Best Available Control Technology shall be met, the following emission limits shall apply: <ul style="list-style-type: none"> • The combined PM emission rate from the Common Stack shall not exceed 2.9 lbs/hr or 0.015 lbs/MMBtu • The combined SO₂ emission rate from the Common Stack shall not exceed 105.6 lbs/hr or 0.53 lbs/MMBtu • The combined NO_x emission rate from the Common Stack shall not exceed 29.6 lbs/hr or 0.15 lbs/MMBtu • The combined CO emission rate from the Common Stack shall not exceed 7.3 lbs/hr or 0.04 lbs/MMBtu 	ADEM Admin. Code R. 335-3-14-.04
2. When firing BPA Tar, the following emission limits shall apply: <ul style="list-style-type: none"> • The individual Cadmium emission rate from the Common Stack shall not exceed 0.023 mg/dscm. • The individual CO emission rate from the Common Stack shall not exceed 35 ppmv (dry). • The individual emission rate for dioxins and furans from the Common Stack shall not exceed 0.32 ng/dscm • The individual HCl emission rate from the Common Stack shall not exceed 14 ppmv (dry). • The individual emission rate for Lead from the Common Stack shall not exceed 0.096 mg/dscm. • The individual emission rate for Mercury from the Common Stack shall not exceed 0.0024 mg/dscm. 	ADEM Admin. Code R. 335-3-3-.05(6)

No. 1 and No. 2 Boilers Provisos

Federally Enforceable Provisos	Regulations
<i>Emission Standards continued</i>	
<ul style="list-style-type: none"> • The individual emission rate for NO_x from the Common Stack shall not exceed 76 ppmv (dry). • The individual emission rate for Particulate Matter from the Common Stack shall not exceed 110 mg/dscm. • The individual emission rate for SO₂ from the Common Stack shall not exceed 720 ppmv (dry). 	
3. Pursuant to ADEM Admin. Code R. 335-3-3-.05(6)(b)8., the opacity from F-104 shall not exceed 10%, calculated as a 1-hour block average of ten 6-minute averages.	ADEM Admin. Code R. 335-3-3-.05(6)
4. No. 2 fuel oil usage in Boilers F-104 and F-105, combined, shall not exceed 4,000,000 gallons in any consecutive 12-month period.	ADEM Admin. Code R. 335-3-14-.04
5. In order to ensure that Boilers F-104 and F-105 are in compliance with their emission limits, these boilers shall fire only natural gas, No. 2 fuel oil with a sulfur content of less than 0.5% by weight, hydrogen, and/or hazardous waste from the BPA Production Unit.	ADEM Admin. Code R. 335-3-16-.05
6. Pursuant to ADEM Admin. Code R. 335-3-3-.05(5), no CISWI unit can be operated unless a fully trained and qualified CISWI unit operator is accessible, either at the facility or can be at the facility in one hour. Training shall be obtained by completing an incinerator operator training course that include, at a minimum, the three elements described in subparagraphs 335-3-3-.05(5)(c) 1. Through 3.	ADEM Admin. Code R. 335-3-3-.05(5)
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the nitrogen oxides emission rate of these boilers shall be determined by Reference Method 7 or 7E in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). 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 CO emission rates of this unit shall be determined by Reference Method 10 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03

No. 1 and No. 2 Boilers Provisos

Federally Enforceable Provisos	Regulations
<i>Compliance and Performance Test Methods and Procedures continued</i>	
3. Compliance with the PM emission rates of these units shall be determined by Reference Method 5 or 17 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
4. Compliance with the sulfur dioxide emission rates of these units shall be determined by EPA Reference Method 6 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
5. Compliance with cadmium emission rates of these units shall be determined by EPA Reference Method 29 (Use ICPMS for the analytical finish) in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
6. Compliance with the dioxins and furans emission rates of these units shall be determined by EPA Reference Method 23 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
7. Compliance with lead emission rates of these units shall be determined by EPA Reference Method 29 (Use ICPMS for the analytical finish) in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
8. Compliance with the HCl emission rates of these units shall be determined by EPA Reference Method 26 or 26A in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03

No. 1 and No. 2 Boilers Provisos

Federally Enforceable Provisos	Regulations
<i>Compliance and Performance Test Methods and Procedures continued</i>	
<p>9. Compliance with mercury emission rates of these units shall be determined by EPA Reference Method 29 or 30B or ASTM D6784-02 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code R. 335-3-10-.03</p>
<i>Emission Monitoring</i>	
<p>1. In order to ensure that F-104 and F-105 are in compliance with their emission limits, the permittee shall test each shipment of No. 2 fuel oil to ensure that it contains less than 0.5% by weight sulfur, or obtain information from the vendor regarding the sulfur content of each shipment of No. 2 fuel oil.</p>	<p>ADEM Admin. Code R. 335-3-16-.05</p>
<p>2. The permittee shall monitor the amount of fuel oil burned in F-104 and F-105 during each calendar month.</p>	<p>ADEM Admin. Code R. 335-3-16-.05</p>
<p>3. The permittee shall install, operate, certify, and maintain a continuous opacity monitoring system (COMS) on the common stack according to the procedures in ADEM Admin. Code R. 335-3-3-.05(10).</p>	<p>ADEM Admin. Code R. 335-3-3-.05(9)</p>
<p>4. Pursuant to ADEM Admin. Code R. 335-3-3-.05(9)(b), the permittee shall conduct an annual performance test for the pollutants listed in table 6 of the CISWI rule. Performance testing shall meet the requirements of ADEM Admin. Code R. 335-3-3-.05(7). Pursuant to ADEM Admin. Code R. 335-3-3-.05(9)(z), the annual performance test shall be conducted between 11 and 13 months of the previous performance test. Pursuant to ADEM Admin. Code R. 335-3-3-.05(9)(bb)3., the permittee may elect to skip some performance testing.</p>	<p>ADEM Admin. Code R. 335-3-3-.05(5)</p>

No. 1 and No. 2 Boilers Provisos

Federally Enforceable Provisos	Regulations
<i>Recordkeeping and Reporting Requirements</i>	
1. The permittee shall keep records of the % sulfur content of each shipment of No. 2 fuel oil. The records shall be kept in a form suitable for inspection for a period of 5 years.	ADEM Admin. Code R. 335-3-16-.05
2. The permittee shall keep records of the amount of No. 2 fuel oil burned in F-104 and F-105 each calendar month. The permittee shall calculate a 12-month rolling total of the amount of No. 2 fuel oil burned in F-104 and F-105. These records shall be kept in a form suitable for inspection for a period of 5 years.	ADEM Admin. Code R. 335-3-16-.05
3. The permittee shall comply with the recordkeeping requirements described in paragraphs 335-3-3-.05(11)(a) through (x) of the CISWI rule.	ADEM Admin. Code R. 335-3-3-.05(11)
4. The permittee shall comply with the reporting requirements described in paragraphs 335-3-3-.05(11)(y) of the CISWI rule.	ADEM Admin. Code R. 335-3-3-.05(11)

No. 3 Boiler Informational Summary

Description: 99.48 MMBTU/HR natural gas fired package boiler with No. 2 fuel oil back-up and Hydrogen pilot (F-751)

Operating Schedule: 8760 hours/year.

This unit is subject to the following NSPSs, NESHAPs, or MACTs

40 CFR 63 Subpart DDDDD

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
F-751 firing natural gas with Hydrogen pilot	99.48 MMBTU/HR Boiler	PM	0.5 lbs/hr	335-3-14-.01
F-751 firing natural gas with Hydrogen pilot	99.48 MMBTU/HR Boiler	SO ₂	0.06 lbs/hr	335-3-14-.01
F-751 firing natural gas with Hydrogen pilot	99.48 MMBTU/HR Boiler	NO _x	9.9 lbs/hr and 0.10 lbs/MMBTU	335-3-14-.04
F-751 firing fuel oil with Hydrogen pilot	99.48 MMBTU/HR Boiler	PM	1.4 lbs/hr	335-3-14-.01
F-751 firing fuel oil with Hydrogen pilot	99.48 MMBTU/HR Boiler	SO ₂	50.2 lbs/hr	335-3-14-.01
F-751 firing fuel oil with Hydrogen pilot	99.48 MMBTU/HR Boiler	NO _x	14.9 lbs/hr and 0.15 lbs/MMBTU	335-3-14-.04
F-751 firing fuel oil with Hydrogen pilot	99.48 MMBTU/HR Boiler	CO	12.94 lbs/hr and 0.13 lbs/MMBTU	335-3-11-.06

No. 3 Boiler Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, Major Source Operating Permits.	ADEM Admin. Code R. 335-3-16-.03
2. This boiler is subject to Best Available Control Technology limitations for NO _x .	ADEM Admin. Code R. 335-3-14-.04
3. This boiler is subject to the applicable requirements of ADEM Admin. Code R. 335-3-11-.06 (107), “National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters” (40 CFR 63, Subpart DDDDD).	ADEM Admin. Code R. 335-3-11-.06 (107)
<i>Emission Standards</i>	
1. Such that the standards for Best Available Control Technology shall be met, the following emission limits shall apply: <ul style="list-style-type: none"> • When firing natural gas, the NO_x emission rate shall not exceed 0.10 lbs/MMBTU or 9.9 lbs/hr • When firing No. 2 fuel oil, the NO_x emission rate shall not exceed 0.15 lbs/MMBTU or 14.9 lbs/hr 	ADEM Admin. Code R. 335-3-14-.04
2. When firing natural gas, the following emission limits shall apply: <ul style="list-style-type: none"> • The PM emission rate shall not exceed 0.5 lbs/hr • The SO₂ emission rate shall not exceed 0.06 lbs/hr 	ADEM Admin. Code R. 335-3-14-.01
3. When firing No. 2 fuel oil, the following emission limits shall apply: <ul style="list-style-type: none"> • The PM emission rate shall not exceed 1.4 lbs/hr • The SO₂ emission rate shall not exceed 50.2 lbs/hr 	ADEM Admin. Code R. 335-3-14-.01

No. 3 Boiler Provisos

Federally Enforceable Provisos	Regulations
<i>Emission Standards Continued</i>	
4. When firing No. 2 fuel oil, the CO emission rate shall not exceed 12.94 lbs/hr.	ADEM Admin. Code R. 335-3-11-.06 (107)
5. This boiler may only fire natural gas and hydrogen to operate the pilot.	ADEM Admin Code R. 335-3-14-.01
6. This boiler may fire only natural gas or No. 2 fuel oil with a sulfur content of not more than 0.5% by weight. No. 2 fuel oil usage shall not exceed 1,060,350 gallons during any consecutive twelve (12)-month period.	ADEM Admin. Code R. 335-3-16-.05
<i>Compliance & Performance Test Methods & Procedures</i>	
1. Compliance with the nitrogen oxides emission rate of this unit shall be determined by Reference Method 7 or 7E in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). 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 PM emission rate of this unit shall be determined by Reference Method 5 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
3. Compliance with the sulfur dioxide emission rates of these units shall be determined by EPA Reference Method 6 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
4. Compliance with the work practice standards of Table 3 to Subpart DDDDD shall be demonstrated by performing annual tune-up as specified in 63.7540(a)(10)(i) through (a)(10)(vi).	ADEM Admin. Code R. 335-3-11-.06 (107)

No. 3 Boiler Provisos

Federally Enforceable Provisos	Regulations
<i>Emissions Monitoring</i>	
1. In order to ensure that Boiler No. 3 is in compliance with its emission limits, the permittee shall test each shipment of No. 2 fuel oil to ensure that it contains less than 0.5% by weight sulfur or obtain information from the vendor regarding the sulfur content of each shipment of No. 2 fuel oil.	ADEM Admin. Code R. 335-3-16-.05
2. An emissions test for Nitrogen Oxides shall be conducted at intervals not to exceed 5 years following the date of initial compliance testing. All test reports must be submitted to the Department within 15 days of completion of testing.	ADEM Admin. Code R. 335-3-16-.05
<i>Recordkeeping and Reporting Requirements</i>	
1. The permittee shall keep records of the % by weight sulfur content of each shipment of No. 2 fuel oil. The records shall be kept in a form suitable for inspection for a period of 5 years.	ADEM Admin Code R. 335-3-16-.05
2. The permittee shall keep records of the amount of fuel oil burned in Boiler No. 3. Compliance with the nitrogen oxides emission rate of this unit shall be determined by Reference Method 7 or 7E in Appendix A of 40 CFR 60 (7-1-07 edition). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin Code R. 335-3-16-.05
3. Should SABIC elect to burn No. 2 fuel oil during periods of natural gas curtailment, a notification of alternative fuel use must be submitted to the Department within 48 hours of the declaration of each period of natural gas curtailment, as stated in 63.7545(f). The notification must include the information specified in paragraphs 63.7545(f)(1) through 63.7545 (f)(5).	ADEM Admin. Code R. 335-3-11-.06 (107)

No. 4 Boiler Informational Summary

Description: 246.9 MMBTU/HR Natural Gas-Fired Package Boiler (No. 4) with Hydrogen pilot (F-752)

Operating Schedule: 8760 hours/year.

This unit is subject to the following NSPSs, NESHAPs, or MACTs

**40 CFR Part 60 Subpart Db
40 CFR 63 Subpart DDDDD**

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
F-752	No. 4 Boiler	PM	1.2 lbs/hr	335-3-14-.01
F-752	No. 4 Boiler	SO ₂	0.15 lbs/hr	335-3-14-.01
F-752	No. 4 Boiler	NO _x	0.15 lbs/MMBTU and 37.0 lbs/hr	335-3-14-.04

No. 4 Boiler Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, Major Source Operating Permits.	ADEM Admin. Code R. 335-3-16-.03
2. This boiler is subject to the New Source Performance Standard for Industrial-Commercial-Institutional Steam Generating Units as listed in 40 CFR Part 60, Subpart Db.	ADEM Admin. Code R. 335-3-10-.02 (2)(b)
3. This boiler is subject to Best Available Control Technology limitations for NO _x .	ADEM Admin. Code R. 335-3-14-.04
4. This boiler is subject to the applicable requirements of ADEM Admin. Code R. 335-3-11-.06 (107), "National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" (40 CFR 63, Subpart DDDDD).	ADEM Admin. Code R. 335-3-11-.06 (107)
<i>Emission Standards</i>	
1. Such that the standards for Best Available Control Technology shall be met, the following emission limits shall apply: <ul style="list-style-type: none"> • The NO_x emission rate shall not exceed 0.15 lb/MMBTU and 37.0 lbs/hr 	ADEM Admin. Code R. 335-3-14-.04
2. Except as listed above, F-752 shall meet the applicable emissions standards for NO _x set forth in 40 CFR Part 60, Subpart Db. (40 CFR 60.44b)	ADEM Admin. Code R. 335-3-10-.02 (2)(b)
3. The following emission limits shall apply to this boiler: <ul style="list-style-type: none"> • The PM emission rate shall not exceed 1.2 lbs/hr • The SO₂ emission rate shall not exceed 0.15 lbs/hr 	ADEM Admin. Code R. 335-3-14-.01

No. 4 Boiler Provisos

Federally Enforceable Provisos	Regulations
<i>Emission StandardsContinued</i>	
4. This boiler may only fire hydrogen to operate the pilot.	ADEM Admin. Code R. 335-3-14-.01
5. In order to ensure that the boiler is in compliance with its limits for SO ₂ and PM, this boiler shall fire only natural gas.	ADEM Admin. Code R. 335-3-16-.05
<i>Compliance & Performance Test Methods & Procedures</i>	
1. Compliance with the NO _x standard for this unit shall be determined by EPA Reference Method 7 or 7E in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)) or with the NO _x CEMS required by this permit and NSPS Subpart Db. 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 PM emission rate of this unit shall be determined by Reference Method 5 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
3. Compliance with the sulfur dioxide emission rates of these units shall be determined by EPA Reference Method 6 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
4. Compliance with with the work practice standards of Table 3 to Subpart DDDDD shall be demonstrated by performing annual tune-up as specified in 63.7540(a)(10)(i) through (a)(10)(vi).	ADEM Admin. Code R. 335-3-11-.06 (107)

No. 4 Boiler Provisos

Federally Enforceable Provisos	Regulations
<i>Emission Monitoring</i>	
1. For NO _x monitoring, the permittee shall install, calibrate, maintain, and operate a continuous monitoring system (CMS) for measuring nitrogen oxides emissions discharged to the atmosphere and record the output of the system. (40 CFR 60.48b(b)) The CMS shall be operated and data recorded during all periods of operation of this boiler except for CMS breakdowns and repairs. Data shall be recorded during calibration checks, and zero and span adjustments. (40 CFR 60.48b(c))	ADEM Admin Code R. 335-3-10-.02 (2)(b)
<i>Recordkeeping and Reporting Requirements</i>	
1. The permittee shall follow the recordkeeping and reporting requirements for NO _x emissions as found in 40 CFR Part 60 Subpart Db. (40 CFR 60.49b)	ADEM Admin Code R. 335-3-10-.02 (2)(b)

Waste Incinerator Informational Summary

Description: 28 Ton/day Non-Hazardous Waste Incinerator with Ionizing Wet Scrubber (I-5)

Operating Schedule: 8760 hours/year.

This unit is subject to the following NSPSs, NESHAPs, or MACTs

None Applicable

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
I-5	Waste Incinerator	Cadmium	0.004 mg/dscm	335-3-3-.05
I-5	Waste Incinerator	CO	157 ppmv (dry)	335-3-3-.05
I-5	Waste Incinerator	Dioxins and Furans (toxic equivalency basis)	0.41 ng/dscm	335-3-3-.05
I-5	Waste Incinerator	HCl	62 ppmv (dry)	335-3-3-.05
I-5	Waste Incinerator	Lead	0.04 mg/dscm	335-3-3-.05
I-5	Waste Incinerator	Mercury	0.47 mg/dscm	335-3-3-.05
I-5	Waste Incinerator	NO _x	388 ppmv (dry)	335-3-3-.05
I-5	Waste Incinerator	Particulate Matter	70 mg/dscm	335-3-3-.05
I-5	Waste Incinerator	SO ₂	20 ppmv (dry)	335-3-3-.05
I-5	Waste Incinerator	Opacity	10%	335-3-3-.05

Waste Incinerator 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
<i>Emission Standards</i>	
1. The following emission limits shall apply to the Non-Hazardous Waste incinerator: <ul style="list-style-type: none"> • The individual Cadmium emission rate from I-5 shall not exceed 0.004 mg/dscm. • The individual CO emission rate from I-5 shall not exceed 157 ppmv (dry). • The individual emission rate for dioxins and furans from I-5 shall not exceed 0.41 ng/dscm. • The individual HCl emission rate from I-5 shall not exceed 62 ppmv (dry). • The individual emission rate for Lead from I-5 shall not exceed 0.04 mg/dscm. • The individual emission rate for Mercury from I-5 shall not exceed 0.47 mg/dscm. • The individual emission rate for NO_x from I-5 shall not exceed 388 ppmv (dry). • The individual emission rate for Particulate Matter from I-5 shall not exceed 70 mg/dscm. • The individual emission rate for SO₂ from I-5 shall not exceed 20 ppmv (dry). 	ADEM Admin. Code R. 335-3-3-.05
2. Pursuant to ADEM Admin. Code R. 335-3-3-.05(6)(b)8., the opacity from I-5 shall not exceed 10%, calculated as a 1-hour block average of ten 6-minute averages.	ADEM Admin. Code R. 335-3-3-.05
<i>Compliance & Performance Test Methods & Procedures</i>	
1. The Waste Incinerator is subject to the requirements of ADEM Admin. Code r. 335-3-3-.05, which had a compliance deadline of February 7, 2018. The Waste Incinerator is not currently being operated. Pursuant to ADEM Admin. Code r. 335-3-3-.05(3)(f), if the Waste Incinerator is restarted on or after the compliance deadline, the Permittee shall achieve compliance upon startup.”	ADEM Admin. Code R. 335-3-3-.05

Waste Incinerator Provisos

Federally Enforceable Provisos	Regulations
<i>Emission Monitoring</i>	
1. The Waste Incinerator is subject to the requirements of ADEM Admin. Code r. 335-3-3-.05, which had a compliance deadline of February 7, 2018. The Waste Incinerator is not currently being operated. Pursuant to ADEM Admin. Code r. 335-3-3-.05(3)(f), if the Waste Incinerator is restarted on or after the compliance deadline, the Permittee shall achieve compliance upon startup.”	ADEM Admin. Code R. 335-3-3-.05
<i>Recordkeeping and Reporting Requirements</i>	
1. The Waste Incinerator is subject to the requirements of ADEM Admin. Code r. 335-3-3-.05, which had a compliance deadline of February 7, 2018. The Waste Incinerator is not currently being operated. Pursuant to ADEM Admin. Code r. 335-3-3-.05(3)(f), if the Waste Incinerator is restarted on or after the compliance deadline, the Permittee shall achieve compliance upon startup.”	ADEM Admin. Code R. 335-3-3-.05

Cogeneration Facility Informational Summary

Description: 85 MW Natural Gas Fired Combustion Turbine with Natural Gas/Hydrogen Fired 225 MMBtu/Hr Duct Burner and Heat Recovery Boiler, 1.0 MMBtu/hr Natural Gas Pre-heater

Operating Schedule: 8760 hours/year.

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

- 40 CFR Part 60, Subpart Db**
- 40 CFR Part 60, Subpart GG**
- 40 CFR Part 63, Subpart YYYYY**
- 40 CFR Part 63, Subpart DDDDD**

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
Cogen	Gas Turbine	NO _x	9 ppm/ 37.5 lbs/hr	335-3-14-.04
Cogen	Duct Burner	NO _x	0.2 lbs/mmbtu and 25.7 lbs/hr	335-3-14-.04
Cogen	Combined Stack	NO _x	0.07 lbs/mmbtu and 63.2 lbs/hr	335-3-14-.04
Cogen	Gas Turbine	CO	0.07 lbs/mmbtu and 61.5 lbs/hr	335-3-14-.04
Cogen	Duct Burner	CO	0.10 lbs/mmbtu and 22.5 lbs/hr	335-3-14-.04
Cogen	Combined Stack	CO	0.08 lbs/mmbtu and 84.0 lbs/hr	335-3-14-.04
Cogen	Combined Stack	VOC	8.9 lbs/hr	335-3-14-.01
Cogen	Gas Turbine	PM	0.01 lbs/mmbtu and 5.0 lbs/hr	335-3-14-.04
Cogen	Duct Burner	PM	0.02 lbs/mmbtu and 2.3 lbs/hr	335-3-14-.04
Cogen	Combined Stack	PM	0.01 lbs/mmbtu and 7.3 lbs/hr	335-3-14-.04
Cogen	Combined Stack	Visible Emissions	10%	335-3-14-.01

Cogeneration Facility 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. The duct burner is subject to the New Source Performance Standard for Industrial-Commercial-Institutional Steam Generating Units as listed in 40 CFR Part 60, Subpart Db.	ADEM Admin. Code R. 335-3-10-.02 (2)(b)
3. The gas turbine is subject to the New Source Performance Standard for Stationary Gas Turbines as listed in 40 CFR 60, Subpart GG.	ADEM Admin. Code R. 335-3-10-.02 (33)
4. The gas turbine is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines as listed in 40 CFR 63, Subpart YYYY.	ADEM Admin. Code R. 335-3-11-.06(102)
5. The natural gas pre-heater is subject to the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, as listed in 40 CFR 63, Subpart DDDDD.	ADEM Admin. Code R. 335-3-11-.06 (107)
<i>Emission Standards</i>	
1. Nitrogen oxides emissions from the gas turbine shall not exceed 9 ppm and 37.5 lbs/hr. All ppm values are at 15% oxygen on a dry basis (ppmvd, 15%).	ADEM Admin. Code R. 335-3-14-.04
2. Nitrogen oxides emissions from the duct burner shall not exceed 0.2 lbs/MMBtu and 25.7 lbs/hr.	ADEM Admin. Code R. 335-3-14-.04
3. Nitrogen oxides emissions from the combined gas turbine/duct burner stack shall not exceed 0.07 lbs/MMBtu and 63.2 lbs/hr.	ADEM Admin. Code R. 335-3-14-.04
4. Carbon monoxide emissions from the gas turbine shall not exceed 0.07 lbs/MMBtu and 61.5 lbs/hour.	ADEM Admin. Code R. 335-3-14-.04
5. Carbon monoxide emissions from the duct burner shall not exceed 0.10 lbs/MMBtu and 22.5 lbs/hr.	ADEM Admin. Code R. 335-3-14-.04

Cogeneration Facility Provisos

Federally Enforceable Provisos	Regulations
<i>Emission Standards Continued</i>	
6. Carbon monoxide emissions from the combined gas turbine/duct burner stack shall not exceed 0.08 lbs/MMBtu and 84.0 lbs/hr.	ADEM Admin. Code R. 335-3-14-.04
7. VOC emissions from the combined gas turbine/duct burner stack shall not exceed 8.9 lbs/hr.	ADEM Admin. Code R. 335-3-14-.01
8. Particulate emissions from the gas turbine shall not exceed 0.01 lbs/MMBtu and 5.0 lbs/hr.	ADEM Admin. Code R. 335-3-14-.04
9. Particulate emissions from the duct burner shall not exceed 0.02 lbs/MMBtu and 2.3 lbs/hr.	ADEM Admin. Code R. 335-3-14-.04
10. Particulate emission from the combined gas turbine/duct burner stack shall not exceed 0.01 lbs/MMBtu and 7.3 lbs/hr.	ADEM Admin. Code R. 335-3-14-.04
11. Visible emissions from the combined gas turbine and duct burner stack will not exceed 10% opacity.	ADEM Admin. Code R. 335-3-14-.01
12. These standards shall apply except during start-up, shut-down, or load change.	ADEM Admin. Code R. 335-3-14-.04
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the nitrogen oxides emission limits for this cogeneration facility shall be determined by Reference Method 20 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)) and using a rolling three hour average computed by the nitrogen oxides continuous emissions monitoring system. 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 CO emission limits for this cogeneration facility shall be determined by Reference Method 10 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03
3. Compliance with the VOC emission limit for this cogeneration facility shall be determined by Reference Method 25 or 25A or 25B in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code R. 335-3-10-.03

Cogeneration Facility Proviso

Federally Enforceable Provisos	Regulations
<i>Compliance and Performance Test Methods and Procedures Continued</i>	
4. Compliance with the PM emission limits for this cogeneration facility shall be determined by Reference Method 5 or 17 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)). Alternate test methods may be used provided prior approval by the Department is granted	ADEM Admin. Code R. 335-3-10-.03
5. Compliance with the visible emissions limit for this cogeneration facility shall be determined by Reference Method 9 in Appendix A of 40 CFR 60 (edition incorporated in ADEM Admin. Code r. 335-3-10-.01(1)).	ADEM Admin. Code R. 335-3-10-.03
6. Compliance with the work practice standards of Table 3 to 40 CFR 63 Subpart DDDDD shall be demonstrated by performing a tune-up every five years as specified in 63.7500(e).	ADEM Admin. Code R. 335-3-11-.06 (107)
<i>Emission Monitoring</i>	
1. In order to ensure that the cogeneration facility does not exceed its NO _x limits, a nitrogen oxides continuous emissions monitoring system (CEMS) which meets the specification of 40 CFR Part 75 will be installed and operated at a location approved by the Director. The CEMS will be certified and maintained in accordance with 40 CFR Part 75.	ADEM Admin. Code R. 335-3-14-.04
2. In order to ensure that the cogeneration facility does not exceed its CO, VOC, or PM emission limits, the gas turbine and pre-heater shall fire only natural gas, and the duct burner shall fire only natural gas and hydrogen.	ADEM Admin. Code R. 335-3-14-.01 & 335-3-14-.04
3. In order to ensure that the cogeneration facility does not exceed its visible emissions limit, the facility shall inspect the combined gas turbine/duct burner stack for the presence of visible emissions once per week while the unit is operating. If visible emissions are noted, a certified observer is to perform a Method 9 visible emission observation within 24 hours.	ADEM Admin. Code R. 335-3-14-.01
4. The gas turbine shall comply with the monitoring requirements of 40 CFR Part 60 Subpart GG.	ADEM Admin. Code R. 335-3-10-.02 (32)

Cogeneration Facility Provisos

Federally Enforceable Provisos	Regulations
<i>Recordkeeping and Reporting Requirements</i>	
1. The permittee shall comply with the recordkeeping and reporting requirements found in 40 CFR Part 60 Subpart GG (60.330).	ADEM Admin. Code R. 335-3-10-.02 (32)
2. The permittee shall comply with the recordkeeping and reporting requirements found in 40 CFR Part 60, Subpart Db (60.49b) by complying with the recordkeeping and reporting requirements found in 40 CFR Part 60, Subpart GG (60.330).	ADEM Admin. Code R. 335-3-10-.02 (2)(b)
3. The permittee shall submit an excess emissions report for the combined gas turbine/duct burner stack as defined by 40 CFR Part 60, Subpart A, §60.7 (c) and (d) to ADEM within 30 days of the end of each calendar quarter.	ADEM Admin. Code R. 335-3-10-.02 (1)
4. The permittee shall maintain records of the weekly visual inspections of the combined gas turbine/duct burner stack. The records, which may be kept in the form of a log or a checklist, shall be kept in a form suitable for inspection for five years. The presence of visible emissions shall be recorded and reported in the semi-annual report, as well as the results of any Method 9 observation. If the results of a Method 9 observation indicate an opacity of greater than 10 percent, the permittee shall notify the Department within 24 hours. The permittee shall also keep a record of the corrective action that it took in the event that visible emissions were noted.	ADEM Admin. Code R. 335-3-14-.01

Emergency Generator and Fire Pump Engines Informational Summary

Description: RICE MACT Units:

Unit	Facility ID	Maximum Brake Horsepower	Engine Function	Primary Fuel	Installation Date
RICE-01	G-1930	1408	Electrical Generation	No. 2 Fuel Oil	1986
RICE-02	G-1931	1408	Electrical Generation	No. 2 Fuel Oil	1986
RICE-03	G-1001	1877	Electrical Generation	No. 2 Fuel Oil	1991
RICE-04	G-1941	1408	Electrical Generation	No. 2 Fuel Oil	1986
RICE-05	G-1942	1408	Electrical Generation	No. 2 Fuel Oil	1986
RICE-06	G-125201	1408	Electrical Generation	No. 2 Fuel Oil	1986
RICE-07	G-115101	168	Electrical Generation	No. 2 Fuel Oil	1986
RICE-08	G-1143	11	Electrical Generation	Natural Gas	1995
RICE-09	FP-1	300	Fire Pump	No. 2 Fuel Oil	1986
RICE-10	FP-2	300	Fire Pump	No. 2 Fuel Oil	1986
RICE-11	FP-3	300	Fire Pump	No. 2 Fuel Oil	1986

Emission Unit No: 056

Operating Schedule: 500 hours/year/engine, <100 hrs/year non-emergency

This unit is subject to the following NSPSs, NESHAPs, or MACTs

40 CFR 63 Subpart ZZZZ

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
RICE-01 through RICE-11	G-1930, G-1931, G-1001, G-1941, G-1942, G-125201, G-115101, G-1143, FP-1, FP-2, FP-3	Opacity	Shall not exceed 20% based on 6-minute average, except one 6-minute period in every 60-minute period it shall not exceed 40%	Rule 335-3-4-.01

Emergency Generator and Fire Pump Engines Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. Units RICE-01 through RICE-11 are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, Major Source Operating Permits.	ADEM Admin. Code R. 335-3-16-.03
2. Units RICE-01 through RICE-11 are subject to the applicable requirements of ADEM Admin. Code R. 335-3-11-.06(103), “National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Hazardous Air Pollutant (HAP) Emissions from Stationary Reciprocating Internal Combustion Engines” (40 CFR Part 63 Subpart ZZZZ).	ADEM Admin. Code R. 335-3-11-.06 (103)
<i>Emission Standards</i>	
1. These units shall not discharge into the atmosphere opacity greater than twenty percent (20%), as determined by a six (6) minute average, except during one six (6) minute period in any sixty (60) minute period, these units may discharge into the atmosphere opacity not greater than forty percent (40%).	ADEM Admin. Code R. 335-3-11-.06 (103)
2. Units RICE-07, RICE-09 through RICE-11 shall: a) Change oil and filter every 500 hours of operation or annually, whichever comes first; b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	ADEM Admin. Code R. 335-3-11-.06 (103)
3. Units RICE-08 shall: a) Change oil and filter every 500 hours of operation or annually, whichever comes first; b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	ADEM Admin. Code R. 335-3-11-.06 (103)
4. In accordance with and 40 CFR Part 63.6604(b), the permittee shall not burn any diesel fuel in RICE-07 through RICE-11 that does not meet the following per-gallon standards of 40 CFR Part 80.510(b):	ADEM Admin. Code R. 335-3-11-.06 (103)
i. Sulfur content shall not exceed 15 parts per million (ppm); and	
ii. Cetane index shall be a minimum of 40 <u>or</u> the aromatic content shall not exceed 35 volume percent	

Emergency Generator and Fire Pump Engines Provisos

Federally Enforceable Provisos	Regulations
<i>Compliance & Performance Test Methods & Procedures</i>	
1. For RICE-01 through RICE-11, Method 9 as defined in 40 CFR 60, Appendix A, shall be used in the determination of the opacity of the stack emissions.	ADEM Admin. Code R. 335-3-1-.05
2. In accordance with 40 CFR Part 63.6640(f), units RICE-07 through RICE-11 shall adhere to these requirements: <ol style="list-style-type: none"> i. There is no time limit on the use of emergency stationary RICE in emergency situations. ii. You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. iii. You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity 	ADEM Admin. Code R. 335-3-11-.06 (103)
<i>Emission Monitoring</i>	
1. In accordance 40 CFR Part 63.6635(f), a non-resettable hour meter must be installed on these units prior to startup of the engine.	ADEM Admin. Code R. 335-3-11-.06 (103)
<i>Recordkeeping and Reporting Requirements</i>	
1. To demonstrate compliance with the operational limitations, the permittee shall maintain records of the date, time, duration, and purpose of operation each time these units is operated. These records shall be maintained in a permanent form suitable for inspection and shall be readily available for inspection upon request. These records shall be retained for a period of 5 years from the date of generation of each record.	ADEM Admin. Code R. 335-3-11-.06 (103)

Emergency Generator and Fire Pump Engines Provisos

Federally Enforceable Provisos

Regulations

Recordkeeping and Reporting Requirements Continued

2. To demonstrate compliance with fuel limitations in Emission Standards Proviso 4, the permittee shall maintain records of the sulfur content and either the Cetane index or aromatic content of the diesel fuel that is burned in these units. These records shall be maintained in a permanent form suitable for inspection and shall be readily available for inspection upon request. These records shall be retained for a period of 5 years from the date of generation of each record.

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

Wastewater Treatment Plant Informational Summary

Description: WWTP receives Group 2 wastewater streams containing MeCl and TEA

Operating Schedule: 8760 hours/year.

This WWTP unit receives Group 2 wastewater streams from process units that are subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 63, Subpart YY

Pollutants Emitted

Emission Point	Description	Pollutant	Emission Limit	Standard
WWTP	Wastewater Treatment Plant	MeCl and TEA	N/A	N/A

Wastewater Treatment Plant Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, Major Source Operating Permits.	ADEM Admin. Code R. 335-3-16-.03
<i>Emissions Standards</i>	
1. This source is subject to no specific additional requirements other than those listed in the General Provisos.	N/A
<i>Compliance and Performance Test Methods</i>	
1. This source is subject to no specific additional requirements other than those listed in the General Provisos.	N/A
<i>Emissions Monitoring</i>	
1. This source is subject to no specific additional requirements other than those listed in the General Provisos.	N/A
<i>Recordkeeping and Reporting Requirements</i>	
1. This source is subject to no specific additional requirements other than those listed in the General Provisos.	N/A

CAM Plan for Flare P-17 (CO)

	Indicator 1	Indicator 2
I. Indicator	Flame Presence	N/A
Measurement Approach	Thermocouples verify the pilot is lit.	N/A
II. Indicator Range	Lit/Not Lit	N/A
III. Performance Criteria		
1. Representative Data	A thermocouple monitors temperature to indicate whether the pilot is lit or not lit.	N/A
2. Verification of Operation Status	NA	N/A
3. QA/QC Practices and Criteria	Preventative maintenance is conducted semiannually on thermocouple.	N/A
4. Monitoring Frequency	The temperature is monitored continuously.	N/A
5. Data Collection Procedures	The temperature data is recorded continuously.	N/A
6. Averaging Period	NA	N/A

CAM Plan for Flare P-18 (CO)

	Indicator 1	Indicator 2
I. Indicator	Flame Presence	N/A
Measurement Approach	Thermocouples verify the pilot is lit.	N/A
II. Indicator Range	Lit/Not Lit	N/A
III. Performance Criteria		
1. Representative Data	A thermocouple monitors temperature to indicate whether the pilot is lit or not lit.	N/A
2. Verification of Operation Status	NA	N/A
3. QA/QC Practices and Criteria	Preventative maintenance is conducted semiannually on thermocouple.	N/A
4. Monitoring Frequency	The temperature is monitored continuously.	N/A
5. Data Collection Procedures	The temperature data is recorded continuously.	N/A
6. Averaging Period	NA	N/A

CAM Plan for Incinerator Scrubber P-700 (SO₂)

	Indicator 1	Indicator 2
I. Indicator	Scrubbing Liquid Flow Rate	N/A
Measurement Approach	Flow meter measures flow of scrubbing liquid.	N/A
II. Indicator Range	Daily average flow rate \geq 170 gpm	N/A
III. Performance Criteria		
1. Representative Data	Daily Average Flow Rate	N/A
2. Verification of Operation Status	NA	N/A
3. QA/QC Practices and Criteria	Preventative maintenance conducted on the flow meter according to the manufacturer's recommended schedule.	N/A
4. Monitoring Frequency	At least once per hour when the carbon adsorbers are being regenerated.	N/A
5. Data Collection Procedures	The flow rate data is recorded in the data historian.	N/A
6. Averaging Period	24 hours.	N/A