



MAJOR SOURCE OPERATING PERMIT

Permittee: **Pemco International**
Facility Name: **Pemco International**
Facility No.: **303-0001**
Location: **Leesburg, Cherokee County, Alabama**

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this Permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

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

Issuance Date: **January 28, 2022**
Effective Date: **January 28, 2022**
Modification Date: **Draft**
Expiration Date: **January 27, 2027**

Alabama Department of Environmental Management

Table of Contents

| | |
|--|-----------|
| Table of Contents..... | 2 |
| General Permit Provisos..... | 4 |
| Summary Page for Smelters S2, S3, S4 & Auxiliary Equipment..... | 13 |
| Provisos for Smelters S2, S3, S4 & Auxiliary Equipment..... | 14 |
| Applicability..... | 14 |
| Emission Standards | 14 |
| Compliance Test Methods and Procedures..... | 15 |
| Emission Monitoring..... | 15 |
| Recordkeeping and Reporting Requirements | 17 |
| Summary Page for Mills..... | 20 |
| Provisos for Mills..... | 21 |
| Applicability..... | 21 |
| Emission Standards | 21 |
| Compliance Test Methods and Procedures..... | 22 |
| Emission Monitoring..... | 22 |
| Recordkeeping and Reporting Requirements | 24 |
| Summary Page for Mixers..... | 26 |
| Provisos for Mixers | 27 |
| Applicability..... | 27 |
| Emission Standards | 27 |
| Compliance Test Methods and Procedures..... | 28 |
| Emission Monitoring..... | 28 |
| Recordkeeping and Reporting Requirements | 30 |
| Summary Page for Screening and Bagging | 32 |
| Provisos for Screening and Bagging | 34 |
| Applicability..... | 34 |
| Emission Standards | 34 |
| Compliance Test Methods and Procedures..... | 35 |
| Emission Monitoring..... | 35 |
| Recordkeeping and Reporting Requirements | 37 |
| Summary Page for Weighing Operations | 39 |
| Provisos for Weighing Operations | 40 |
| Applicability..... | 40 |
| Emission Standards | 40 |

| | |
|---|-----------|
| Compliance Test Methods and Procedures..... | 41 |
| Emission Monitoring..... | 41 |
| Recordkeeping and Reporting Requirements | 43 |
| Summary Page for Glass Color Concentrate Production Line Operation | 45 |
| Provisos for Glass Color Concentrate Production Line Operation | 46 |
| Applicability..... | 46 |
| Emission Standards | 46 |
| Compliance Test Methods and Procedures..... | 46 |
| Emission Monitoring..... | 46 |
| Recordkeeping and Reporting Requirements | 47 |
| Summary Page for Emergency Generator..... | 48 |
| Provisos for Emergency Generator | 49 |
| Applicability..... | 49 |
| Emission Standards | 49 |
| Compliance Test Methods and Procedures..... | 50 |
| Emission Monitoring..... | 50 |
| Recordkeeping and Reporting Requirements | 50 |

General Permit Provisos

| Federally Enforceable Provisos | Regulations |
|---|---|
| <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>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p> <p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, 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>4. <u>Compliance</u></p> <p>a. The Permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the Permittee.</p> <p>b. The Permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p> <p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p> <p>6. <u>Property Rights</u></p> | <p>Rule 335-3-16-.02(6)</p> <p>Rule 335-3-16-.12(2)</p> <p>Rule 335-3-16-.05(e)</p> <p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p> <p>Rule 335-3-16-.05(h)</p> |

| Federally Enforceable Provisos | Regulations |
|--|-----------------------------|
| <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p> | <p>Rule 335-3-16-.05(i)</p> |
| <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> | <p>Rule 335-3-16-.05(j)</p> |
| <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> | <p>Rule 335-3-16-.05(k)</p> |
| <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> | <p>Rule 335-3-16-.07(a)</p> |
| <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> <p>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;</p> <ul style="list-style-type: none"> a. Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; b. 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; and c. 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> | <p>Rule 335-3-16-.07(b)</p> |

| Federally Enforceable Provisos | Regulations |
|---|----------------------|
| <p>The Permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.</p> <p>The Permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.</p> | Rule 335-3-16-.07(c) |
| <p>12. <u>Compliance Certification</u></p> <p>a. A compliance certification shall be submitted annually within 60 days of the anniversary date of issuance of this Permit.</p> <p>b. The compliance certification shall include the following:</p> <ul style="list-style-type: none"> i. The identification of each term or condition of this permit that is the basis of the certification; ii. The compliance status; iii. 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); iv. Whether compliance has been continuous or intermittent; and v. Such other facts as the Department may require to determine the compliance status of the source. <p>c. 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;">EPA Region 4 via email at EPA_R4_CAA_Reports@epa.gov or EPA's Compliance and Emissions Data Reporting Interface (CEDRI)</p> | Rule 335-3-16-.07(e) |
| <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</p> | Rule 335-3-16-.13(5) |

| Federally Enforceable Provisos | Regulations |
|---|---|
| <p>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> <ul style="list-style-type: none"> b. Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit. c. The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. d. The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements. | |
| <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> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> i. Identification of the specific facility to be taken out of service as well as its location and permit number; ii. The expected length of time that the air pollution control equipment will be out of service; iii. The nature and quantity of emissions of air contaminants likely to occur during the shutdown period; iv. Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; v. The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period. b. In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours | <p>Rule 335-3-1-.07(1), (2)</p> |

| Federally Enforceable Provisos | Regulations |
|---|---|
| <p>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>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>Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>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> <ol style="list-style-type: none"> i. 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; ii. By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; iii. By paving; iv. By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions; v. Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization. | <p>Rule 335-3-4-.02</p> |
| <p>19. <u>Additions and Revisions</u></p> | |

| Federally Enforceable Provisos | Regulations |
|---|--|
| <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 Rule 335-3-16-.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"> i. The date, place, and time of all sampling or measurements; ii. The date analyses were performed; iii. The company or entity that performed the analyses; iv. The analytical techniques or methods used; v. The results of all analyses; and vi. 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. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p> | <p>Rule 335-3-16-.05(c)(3)</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>Rule 335-3-1-.05(3) Rule 335-3-1-.04(1)</p> |

| Federally Enforceable Provisos | Regulations |
|---|----------------------------|
| <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"> 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. 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). 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. 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 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>Rule 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>Rule 335-3-1-.04(1)</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,</p> | <p>40 CFR Part 82</p> |

| Federally Enforceable Provisos | Regulations |
|--|--------------------------------|
| <p>personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <ul style="list-style-type: none"> a. No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F. b. The responsible official shall comply with all reporting and recordkeeping requirements of §82.166. Reports shall be submitted to the US EPA and the Department as required. | |
| <p>26. <u>Chemical Accidental Prevention Provisions</u></p> | |
| <ul style="list-style-type: none"> a. If a chemical listed in Table 1 of 40 CFR 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1 of 40 CFR 68.130, then: <ul style="list-style-type: none"> i. The owner or operator shall comply with the provisions in 40 CFR Part 68. b. The owner or operator shall submit one of the following: <ul style="list-style-type: none"> i. A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or, ii. 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>40 CFR Part 68</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>Rule 335-3-14-.01(1)(d)</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>Rule 335-3-1-.10</p> |
| <p>29. <u>Visible Emissions</u></p> | |
| <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p> | <p>Rule 335-3-4-.01(1)</p> |

| Federally Enforceable Provisos | Regulations |
|---|---|
| <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 Rule 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 Rule 335-3-5-.01.</p> <p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Rule 335-3-4-.04.</p> <p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p> | <p>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p> <p>Rule 335-3-4-.04</p> <p>Rule 335-3-1-.05</p> |

Summary Page for Smelters S2, S3, S4 & Auxiliary Equipment

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission Limitations:

| Emission Point # | Description | Pollutant | Emission Limit | Regulation |
|---|--|-----------|--|------------------------------|
| North Scrubber [SCR1] South Scrubber [SCR2] Each scrubber can control any smelter | Smelter S2 [EU1] Smelter S3 [EU2] Smelter S4 [EU3] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04 |
| | | Opacity | No more than one six (6) minute average > 20% in any sixty minute period AND No six minute average > 40% in any sixty (60) minute period | Rule 335-3-4-.01 |
| EU48-DC-7 | S-2 Conveyor and Bagger [EU4A] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04 |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU54-DC-16 | S-3 Conveyor and Bagger [EU5] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04 |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU58-DC-23 | S-4 Conveyor and Bagger [EU6] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04 |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU55-DC-17 | S-2 Mixer and Feeder [EU4B] | PM | 0.01 grains per dscf | Rule 335-3-14-.04 [Anti-PSD] |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU56-DC-18 | S-3 Mixer and Feeder [EU7] | PM | 0.01 grains per dscf | Rule 335-3-14-.04 [Anti-PSD] |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU59-DC-24 | S-4 Mixer and Feeder [EU8] | PM | 0.01 grains per dscf | Rule 335-3-14-.04 [Anti-PSD] |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |

Provisos for Smelters S2, S3, S4 & Auxiliary Equipment

| Federally Enforceable Provisos | Regulations |
|--|---|
| <p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “Major Source Operating Permits”. 2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), “Control of Particulate Emissions – Visible Emissions”. 3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), “Control of Particulate Emissions for Process Industries – General”. 4. Sources DC-17, DC-18, and DC-24 have enforceable limits in place in order to prevent them from being subject to the applicable provisions of ADEM Admin. Code r. 335-3-14-.04, “Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration Permitting (PSD)]”. 5. The conveyors, baggers, mixers and feeders associated with Smelters S2, S3, and S4 are subject to the applicable requirements of 40 CFR 63 Subpart CCCCCC, “National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing” [MACT 7C]. <ol style="list-style-type: none"> (a) The conveyors, baggers, mixers and feeders associated with Smelters S2, S3, and S4 are subject to the applicable requirements of 40 CFR 63 Subpart A, “General Provisions” as listed in Table 1 of MACT 7C. | <p>Rule 335-3-16-.03</p> <p>Rule 335-3-4-.01(1)</p> <p>Rule 335-3-4-.04(1)</p> <p>Rule 335-3-14-.04 [Anti-PSD]</p> <p>Rule 335-3-11-.06(158) 40 CFR §63.11599(b)</p> <p>Rule 335-3-11-.06(1) 40 CFR §63.11605</p> |
| <p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. Particulate matter emissions from these units shall not exceed that which is calculated using the process weight equation, as defined in ADEM Admin. Code r. 335-3-4-.04(1). 2. Visible emissions from these sources shall not exceed the standards set forth in General Permit Proviso No. 29. 3. Particulate matter emissions from Baghouses DC-17, DC-18, and DC-24 shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf) of exhaust air each. 4. The Permittee must comply with the following requirements at all times for the conveyors, baggers, mixers and feeders associated with Smelters S2, S3, and S4: <ol style="list-style-type: none"> (a) The Permittee must add the dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel and operate a capture system that minimizes fugitive particulate emissions during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling process. | <p>Rule 335-3-4-.04</p> <p>Rule 335-3-4-.01(1)</p> <p>Rule 335-3-14-.04 [Anti-PSD]</p> <p>40 CFR §63.11601(a)</p> <p>40 CFR §63.11601(a)(1)</p> |

| Federally Enforceable Provisos | Regulations |
|---|--|
| <p>(b) The Permittee must capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to a process vessel. This requirement does not apply to pigments and other solids that are in paste, slurry, or liquid form.</p> <p>(c) The Permittee must meet one of the following requirements:</p> <p>(i) Capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to the grinding and milling process; or</p> <p>(ii) Add pigments and other solids that contain compounds of cadmium, chromium, lead, or nickel to the grinding and milling process only in paste, slurry, or liquid form.</p> <p>(d) The Permittee must meet one of the following requirements:</p> <p>(i) Capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel; or</p> <p>(ii) Fully enclose the grinding and milling equipment during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel; or</p> <p>(iii) Ensure that the pigments and solids are in the solution during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel.</p> <p>(e) The visible emissions from DC-7, DC-17, DC-23, DC-16, DC-18, and DC-24 must not exceed 10-percent opacity.</p> | <p>40 CFR §63.11601(a)(2)</p> <p>40 CFR §63.11601(a)(3)</p> <p>40 CFR §63.11601(a)(3)(i)</p> <p>40 CFR §63.11601(a)(3)(ii)</p> <p>40 CFR §63.11601(a)(4)</p> <p>40 CFR §63.11601(a)(4)(i)</p> <p>40 CFR §63.11601(a)(4)(ii)</p> <p>40 CFR §63.11601(a)(4)(iii)</p> <p>40 CFR §63.11601(a)(5)</p> |
| <p><u>Compliance Test Methods and Procedures</u></p> <p>1. Method 5 of 40 CFR Part 60, Appendix A-3, shall be used in the determination of particulate emissions.</p> <p>2. Method 9 of 40 CFR Part 60, Appendix A-4, shall be used in the determination of opacity of stack emissions.</p> <p>3. The tests required by 40 CFR §63.11602(a) should be performed in accordance with the methods and procedures in 40 CFR §63.11602(a)(2)(iii).</p> <p><u>Emission Monitoring</u></p> | <p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p> <p>40 CFR §63.11602(a)(2)</p> |

| Federally Enforceable Provisos | Regulations |
|--|--|
| 1. The Permittee shall conduct emission tests for particulate emissions on smelters S2, S3, and S4 at intervals not to exceed four years following the previous compliance test. The Permittee shall conduct testing while all three smelters are routed to a single scrubber. The Permittee shall alternate testing between the North and South Scrubbers. | Rule 335-3-16-.05(c) |
| 2. An instantaneous visible emissions check shall be conducted at least once daily during daylight hours of the stacks associated with Smelters S2, S3, S4, and the Auxiliary Equipment while the sources are in operation. | Rule 335-3-16-.05(c) |
| (a) If any visible emissions are noted from these sources, corrective action shall be initiated within two (2) hours. | Rule 335-3-16-.05(c) |
| (b) After corrective action has been completed, a 12-minute visible emissions observation in accordance with Method 9 shall be conducted in order to confirm that no visible emissions are present from the Auxiliary Equipment and/or the average opacity of emissions from the smelters is less than 10% opacity. | Rule 335-3-16-.05(c) |
| 3. A properly maintained and operated device shall be utilized to measure the pressure differential between the inlet and exhaust of the scrubbers to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differential shall be checked at least once a week. Whenever a pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range shall be initiated within two hours. | Rule 335-3-16-.05(c) |
| 4. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range shall be initiated within two hours. | Rule 335-3-16-.05(c) |
| 5. The Permittee shall maintain a sufficient supply of limestone on-site at all times for the scrubber water recycle system. | Rule 335-3-16-.05(c) |
| 6. The Permittee must inspect and maintain baghouses from DC-7, DC-17, DC-23, DC-16, DC-18, and DC-24 according to the following requirements: | 40 CFR §63.11602(a)(2)(ii) 40 CFR §63.11602(a)(2) |
| (a) The Permittee must conduct weekly visual inspections of any flexible ductwork for leaks. | 40 CFR §63.11602(a)(2)(ii)(A) |
| (b) The Permittee must conduct inspections of the rigid, stationary ductwork for leaks, and the interior of the dry particulate control unit for structural integrity and to determine the condition of the fabric filter (if applicable) every 12 months. | 40 CFR §63.11602(a)(2)(ii)(B) |

| Federally Enforceable Provisos | Regulations |
|--|---|
| <p>(c) The Permittee must take corrective action when necessary.</p> <p>7. The Permittee must conduct a 5-minute visual determination of emissions from baghouses from DC-7, DC-17, DC-23, DC-16, DC-18, and DC-24 every 3 months using Method 22 of 40 CFR Part 60, Appendix A-7.</p> <p>(a) The visible emission test must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment.</p> <p>(b) If visible emissions are observed for two minutes of the required 5-minute observation period, the Permittee must conduct a Method 203C (40 CFR Part 51, Appendix M) test within 15 days of the time when visible emissions were observed. The Method 203C test will consist of three 1-minute test runs and must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel HAP to a process vessel or to the grinding and milling equipment. If the Method 203C test runs indicate an opacity greater than 10%, the Permittee must comply with the following requirements:</p> <p>(i) The Permittee must take corrective action and retest using Method 203C within 15 days. The Method 203C test will consist of three 1-minute test runs and must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. The Permittee must continue to take corrective action and retest each 15 days until a Method 203C test indicates an opacity equal to or less than 10%.</p> <p>(ii) The Permittee must resume the visible determinations of emissions in accordance with the above 3 months after the previous visible determination.</p> | <p>40 CFR §63.11602(a)(2)</p> <p>40 CFR §63.11602(a)(2)(iii) 40 CFR §63.11602(a)(2)</p> <p>40 CFR §63.11602(a)(2)(iii)</p> <p>40 CFR §63.11602(a)(2)(iii)</p> <p>40 CFR §63.11602(a)(2)(iii)(A)</p> <p>40 CFR §63.11602(a)(2)(iii)(C)</p> |
| <u>Recordkeeping and Reporting Requirements</u> | |
| <p>1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years from the date of generation.</p> <p>2. The Permittee shall maintain a record of each visible emissions check and Method 9 observation. This should include the date and time of the check/observation, observer name, results, problems observed, and corrective actions taken. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation form.</p> <p>3. The Permittee shall maintain a record of the pressure differential readings required under this Permit. This shall include any problems observed and corrective actions taken.</p> <p>4. The Permittee shall record the following information for each inspection and testing activity required by Emission Monitoring Provisos 6 & 7:</p> | <p>Rule 335-3-16-.05(c) 40 CFR §63.11603(c)(5)</p> <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> <p>40 CFR §63.11602(a)(2)</p> |

| Federally Enforceable Provisos | Regulations |
|---|--|
| (a) The date, place, and time; person conducting the activity; technique or method used; operating conditions during the activity; results; and description of correction [sic] actions taken. | 40 CFR §63.11602(b) |
| 5. The Permittee must prepare an annual compliance certification report according to the requirements in 40 CFR §63.11603(b)(1) through 40 CFR §63.11603(b)(3). This report does not need to be submitted unless a deviation from the requirements of MACT 7C has occurred. When a deviation from the requirements of MACT 7C has occurred, the annual compliance certification report must be submitted along with the deviation report. | 40 CFR §63.11603(b) |
| (a) The Permittee must prepare and, if applicable, submit each annual compliance certification report according to the dates specified below: | 40 CFR §63.11603(b)(1) |
| (i) The first annual compliance certification report must cover the first annual reporting period which begins the day of the compliance date and ends on December 31. | 40 CFR §63.11603(b)(1)(i) |
| (ii) Each subsequent annual compliance certification report must cover the annual reporting period from January 1 through December 31. | 40 CFR §63.11603(b)(1)(ii) |
| (iii) Each annual compliance certification report must be prepared no later than January 31 and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance certification report must be submitted along with the deviation report, and postmarked no later than February 15. | 40 CFR §63.11603(b)(1)(iii) |
| (b) The annual compliance certification report must contain the following information: | 40 CFR §63.11603(b)(2) |
| (i) Company name and address; | 40 CFR §63.11603(b)(2)(i) |
| (ii) A statement in accordance with 40 CFR §63.9(h) of the General Provisions that is signed by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of MACT 7C; and | 40 CFR §63.11603(b)(2)(ii) |
| (iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 12-month period beginning on January 1 and ending on December 31. | 40 CFR §63.11603(b)(2)(iii) |
| (c) If a deviation has occurred during the reporting period, the Permittee must include a description of deviations from the applicable requirements, the time periods during which the deviations occurred, and the corrective actions taken. This deviation report must be submitted along with the annual compliance certification report, as required by 40 CFR §63.11603(b)(1)(iii). | 40 CFR §63.11603(b)(3) 40 CFR §63.11603(a)(2)(iii)(A) |

| Federally Enforceable Provisos | Regulations |
|--|--|
| <p>6. The Permittee must maintain the following records:</p> <p>(a) As required in 40 CFR §63.10(b)(2)(xiv), the Permittee must keep a copy of each notification that you submitted in accordance with 40 CFR §63.11603(a), and all documentation supporting any Notification of Applicability and Notification of Compliance Status that you submitted.</p> <p>(b) The Permittee must keep a copy of each Annual Compliance Certification Report prepared in accordance with 40 CFR §63.11603(b).</p> <p>(c) The Permittee must keep records of all inspections and tests as required by 40 CFR §63.11602(b).</p> <p>(d) These records must be in a form suitable and readily available for expeditious review, according to 40 CFR §63.10(b)(1).</p> | <p>40 CFR §63.11603(c)</p> <p>40 CFR §63.11603(c)(1)</p> <p>40 CFR §63.11603(c)(2)</p> <p>40 CFR §63.11603(c)(3)</p> <p>40 CFR §63.11603(c)(4)</p> |

Summary Page for Mills

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission Limitations:

| Emission Point # | Description | Pollutant | Emission Limit | Regulation |
|--|--|-----------|--|------------------------|
| EU52-DC-13 This stack vents indoors | G1 Mill [EU9] G2 Mill [EU10] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04 |
| | | Opacity | No more than one six (6) minute average > 20% in any sixty minute period AND No six minute average > 40% in any sixty (60) minute period | Rule 335-3-4-.01 |
| EU53-DC-15 | G3 Mill [EU11] G14 Mill [EU18] G15 Mill [EU19] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04 |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU51-DC-12 | G4 Mill [EU12] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04 |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU47-DC-6 | G6 Mill [EU13] G7 Mill [EU14] G8 Mill [EU15-A] G8 Mill Receiving Hopper [EU15-B] G9 Mill [EU16-A] G9 Mill Receiving Hopper [EU16-B] G12 Mill [EU17] Portable Hoppers [EU62] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04 |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |

Provisos for Mills

| Federally Enforceable Provisos | Regulations |
|--|---|
| <p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “Major Source Operating Permits”. 2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), “Control of Particulate Emissions – Visible Emissions”. 3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), “Control of Particulate Emissions for Process Industries – General”. 4. These sources are subject to the applicable requirements of 40 CFR 63 Subpart CCCCCC, “National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing” [MACT 7C]. <ol style="list-style-type: none"> (a) These sources are subject to the applicable requirements of 40 CFR 63 Subpart A, “General Provisions” as listed in Table 1 of MACT 7C. | <p>Rule 335-3-16-.03</p> <p>Rule 335-3-4-.01(1)</p> <p>Rule 335-3-4-.04(1)</p> <p>Rule 335-3-11-.06(158) 40 CFR §63.11599(b)</p> <p>Rule 335-3-11-.06(1) 40 CFR §63.11605</p> |
| <p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. Particulate matter emissions from these units shall not exceed that which is calculated using the process weight equation, as defined in ADEM Admin. Code r. 335-3-4-.04(1). 2. Visible emissions from these sources shall not exceed the standards set forth in General Permit Proviso No. 29. 3. The Permittee must comply with the following requirements at all times for these sources: <ol style="list-style-type: none"> (a) The Permittee must add the dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel and operate a capture system that minimizes fugitive particulate emissions during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling process. (b) The Permittee must capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to a process vessel. This requirement does not apply to pigments and other solids that are in paste, slurry, or liquid form. (c) The Permittee must meet one of the following requirements: | <p>Rule 335-3-4-.04</p> <p>Rule 335-3-4-.01(1)</p> <p>40 CFR §63.11601(a)</p> <p>40 CFR §63.11601(a)(1)</p> <p>40 CFR §63.11601(a)(2)</p> <p>40 CFR §63.11601(a)(3)</p> |

| Federally Enforceable Provisos | Regulations |
|--|--|
| <ul style="list-style-type: none"> (i) Capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to the grinding and milling process, or (ii) Add pigments and other solids that contain compounds of cadmium, chromium, lead, or nickel to the grinding and milling process only in paste, slurry, or liquid form. (d) The Permittee must meet one of the following requirements: <ul style="list-style-type: none"> (i) Capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel; or (ii) Fully enclose the grinding and milling equipment during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel; or (iii) Ensure that the pigments and solids are in the solution during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel. (e) The visible emissions from DC-15, DC-12, and DC-6 must not exceed 10-percent opacity. | <p>40 CFR §63.11601(a)(3)(i)</p> <p>40 CFR §63.11601(a)(3)(ii)</p> <p>40 CFR §63.11601(a)(4)</p> <p>40 CFR §63.11601(a)(4)(i)</p> <p>40 CFR §63.11601(a)(4)(ii)</p> <p>40 CFR §63.11601(a)(4)(iii)</p> <p>40 CFR §63.11601(a)(5)</p> |
| <u>Compliance Test Methods and Procedures</u> | |
| 1. Method 5 of 40 CFR Part 60, Appendix A-3, shall be used in the determination of particulate emissions. | Rule 335-3-1-.05 |
| 2. Method 9 of 40 CFR Part 60, Appendix A-4, shall be used in the determination of opacity of stack emissions. | Rule 335-3-1-.05 |
| 3. The tests required by 40 CFR §63.11602(a) should be performed in accordance with the methods and procedures in 40 CFR §63.11602(a)(2)(iii). | 40 CFR §63.11602(a)(2) |
| <u>Emission Monitoring</u> | |
| 1. An instantaneous visible emissions check shall be conducted at least once weekly during daylight hours of the stacks associated with these units. | |
| (a) If any visible emissions are noted from these sources, corrective action shall be initiated within two (2) hours. | Rule 335-3-16-.05(c) |
| (b) After corrective action has been completed, a 12-minute visible emissions observation in accordance with Method 9 shall be conducted in order to confirm that no visible emissions are present from the DC-15, DC-12, and | Rule 335-3-16-.05(c) |

| Federally Enforceable Provisos | Regulations |
|---|---|
| <p>DC-6 and/or the average opacity of emissions from DC-13 is less than 10% opacity.</p> | |
| <p>2. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range shall be initiated within two hours.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>3. The Permittee must inspect and maintain baghouses DC-6, DC-12, and DC-15 according to the following requirements:</p> | <p>40 CFR §63.11602(a)(2)(ii) 40 CFR §63.11602(a)(2)</p> |
| <p>(a) The Permittee must conduct weekly visual inspections of any flexible ductwork for leaks.</p> | <p>40 CFR §63.11602(a)(2)(ii)(A)</p> |
| <p>(b) The Permittee must conduct inspections of the rigid, stationary ductwork for leaks, and the interior of the dry particulate control unit for structural integrity and to determine the condition of the fabric filter (if applicable) every 12 months.</p> | <p>40 CFR §63.11602(a)(2)(ii)(B)</p> |
| <p>(c) The Permittee must take corrective action when necessary.</p> | <p>40 CFR §63.11602(a)(2)</p> |
| <p>4. The Permittee must conduct a 5-minute visual determination of emissions from baghouses from DC-6, DC-12, and DC-15 every 3 months using Method 22 of 40 CFR Part 60, Appendix A-7.</p> | <p>40 CFR §63.11602(a)(2)(iii) 40 CFR §63.11602(a)(2)</p> |
| <p>(a) The visible emission test must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment.</p> | <p>40 CFR §63.11602(a)(2)(iii)</p> |
| <p>(b) If visible emissions are observed for two minutes of the required 5-minute observation period, the Permittee must conduct a Method 203C (40 CFR Part 51, Appendix M) test within 15 days of the time when visible emissions were observed. The Method 203C test will consist of three 1-minute test runs and must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel HAP to a process vessel or to the grinding and milling equipment. If the Method 203C test runs indicate an opacity greater than 10%, the Permittee must comply with the following requirements:</p> | <p>40 CFR §63.11602(a)(2)(iii)</p> |
| <p>(i) The Permittee must take corrective action and retest using Method 203C within 15 days. The Method 203C test will consist of three 1-minute test runs and must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. The Permittee must continue to take corrective action and retest each 15 days until a Method 203C test indicates an opacity equal to or less than 10%.</p> | <p>40 CFR §63.11602(a)(2)(iii)(A)</p> |

| Federally Enforceable Provisos | Regulations |
|---|--|
| (ii) The Permittee must resume the visible determinations of emissions in accordance with the above 3 months after the previous visible determination. | 40 CFR §63.11602(a)(2)(iii)(C) |
| <u>Recordkeeping and Reporting Requirements</u> | |
| 1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years from the date of generation. | Rule 335-3-16-.05(c) 40 CFR §63.11603(c)(5) |
| 2. The Permittee shall maintain a record of each visible emissions check and Method 9 observation. This should include the date and time of the check/observation, observer name, results, problems observed, and corrective actions taken. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation form. | Rule 335-3-16-.05(c) |
| 3. The Permittee shall maintain a record of the pressure differential readings required under this Permit. This shall include any problems observed and corrective actions taken. | Rule 335-3-16-.05(c) |
| 4. The Permittee shall record the following information for each inspection and testing activity required by Emission Monitoring Provisos 3 & 4: | 40 CFR §63.11602(a)(2) |
| (a) The date, place, and time; person conducting the activity; technique or method used; operating conditions during the activity; results; and description of correction [sic] actions taken. | 40 CFR §63.11602(b) |
| 5. The Permittee must prepare an annual compliance certification report according to the requirements in 40 CFR §63.11603(b)(1) through 40 CFR §63.11603(b)(3). This report does not need to be submitted unless a deviation from the requirements of MACT 7C has occurred. When a deviation from the requirements of MACT 7C has occurred, the annual compliance certification report must be submitted along with the deviation report. | 40 CFR §63.11603(b) |
| (a) The Permittee must prepare and, if applicable, submit each annual compliance certification report according to the dates specified below: | 40 CFR §63.11603(b)(1) |
| (i) The first annual compliance certification report must cover the first annual reporting period which begins the day of the compliance date and ends on December 31. | 40 CFR §63.11603(b)(1)(i) |
| (ii) Each subsequent annual compliance certification report must cover the annual reporting period from January 1 through December 31. | 40 CFR §63.11603(b)(1)(ii) |
| (iii) Each annual compliance certification report must be prepared no later than January 31 and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance certification report must be submitted along with the deviation report, and postmarked no later than February 15. | 40 CFR §63.11603(b)(1)(iii) |

| Federally Enforceable Provisos | Regulations |
|---|--|
| (b) The annual compliance certification report must contain the following information: | 40 CFR §63.11603(b)(2) |
| (i) Company name and address; | 40 CFR §63.11603(b)(2)(i) |
| (ii) A statement in accordance with 40 CFR §63.9(h) of the General Provisions that is signed by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of MACT 7C; and | 40 CFR §63.11603(b)(2)(ii) |
| (iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 12-month period beginning on January 1 and ending on December 31. | 40 CFR §63.11603(b)(2)(iii) |
| (c) If a deviation has occurred during the reporting period, the Permittee must include a description of deviations from the applicable requirements, the time periods during which the deviations occurred, and the corrective actions taken. This deviation report must be submitted along with the annual compliance certification report, as required by 40 CFR §63.11603(b)(1)(iii). | 40 CFR §63.11603(b)(3) 40 CFR §63.11603(a)(2)(iii)(A) |
| 6. The Permittee must maintain the following records: | 40 CFR §63.11603(c) |
| (a) As required in 40 CFR §63.10(b)(2)(xiv), the Permittee must keep a copy of each notification that you submitted in accordance with 40 CFR §63.11603(a), and all documentation supporting any Notification of Applicability and Notification of Compliance Status that you submitted. | 40 CFR §63.11603(c)(1) |
| (b) The Permittee must keep a copy of each Annual Compliance Certification Report prepared in accordance with 40 CFR §63.11603(b). | 40 CFR §63.11603(c)(2) |
| (c) The Permittee must keep records of all inspections and tests as required by 40 CFR §63.11602(b). | 40 CFR §63.11603(c)(3) |
| (d) These records must be in a form suitable and readily available for expeditious review, according to 40 CFR §63.10(b)(1). | 40 CFR §63.11603(c)(4) |

Summary Page for Mixers

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission Limitations:

| Emission Point # | Description | Pollutant | Emission Limit | Regulation |
|--|--------------------------|-----------|--|------------------------|
| EU64-BV-2 This emission point vents indoors | Mixer M1 Hopper [EU20-A] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | No more than one six (6) minute average > 20% in any sixty minute period AND No six minute average > 40% in any sixty (60) minute period | Rule 335-3-4-.01(1) |
| EU57-DC-21 | Mixer M6 [EU63] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |

Provisos for Mixers

| Federally Enforceable Provisos | Regulations |
|--|--|
| <p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “Major Source Operating Permits”. 2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), “Control of Particulate Emissions – Visible Emissions”. 3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), “Control of Particulate Emissions for Process Industries – General”. 4. These sources are subject to the applicable requirements of 40 CFR 63 Subpart CCCCCC, “National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing” [MACT 7C]. <ol style="list-style-type: none"> (a) These sources are subject to the applicable requirements of 40 CFR 63 Subpart A, “General Provisions” as listed in Table 1 of MACT 7C. | <p>Rule 335-3-16-.03</p> <p>Rule 335-3-4-.01(1)</p> <p>Rule 335-3-4-.04(1)</p> <p>Rule 335-3-11-.06(158) 40 CFR §63.11599(b)</p> <p>Rule 335-3-11-.06(1) 40 CFR §63.11605</p> |
| <p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. Particulate matter emissions from these units shall not exceed that which is calculated using the process weight equation, as defined in ADEM Admin. Code r. 335-3-4-.04(1). 2. Visible emissions from these sources shall not exceed the standards set forth in General Permit Proviso No. 29. 3. The Permittee must comply with the following requirements at all times for these sources: <ol style="list-style-type: none"> (a) The Permittee must add the dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel and operate a capture system that minimizes fugitive particulate emissions during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling process. (b) The Permittee must capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to a process vessel. This requirement does not apply to pigments and other solids that are in paste, slurry, or liquid form. (c) The Permittee must meet one of the following requirements: <ol style="list-style-type: none"> (i) Capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the | <p>Rule 335-3-4-.04</p> <p>Rule 335-3-4-.01(1)</p> <p>40 CFR §63.11601(a)</p> <p>40 CFR §63.11601(a)(1)</p> <p>40 CFR §63.11601(a)(2)</p> <p>40 CFR §63.11601(a)(3)</p> <p>40 CFR §63.11601(a)(3)(i)</p> |

| Federally Enforceable Provisos | Regulations |
|---|---|
| <p>addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to the grinding and milling process, or</p> <p>(ii) Add pigments and other solids that contain compounds of cadmium, chromium, lead, or nickel to the grinding and milling process only in paste, slurry, or liquid form.</p> <p>(d) The Permittee must meet one of the following requirements:</p> <p>(i) Capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel; or</p> <p>(ii) Fully enclose the grinding and milling equipment during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel; or</p> <p>(iii) Ensure that the pigments and solids are in the solution during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel.</p> <p>(e) The visible emissions from DC-21 must not exceed 10-percent opacity.</p> | <p>40 CFR §63.11601(a)(3)(ii)</p> <p>40 CFR §63.11601(a)(4)</p> <p>40 CFR §63.11601(a)(4)(i)</p> <p>40 CFR §63.11601(a)(4)(ii)</p> <p>40 CFR §63.11601(a)(4)(iii)</p> <p>40 CFR §63.11601(a)(5)</p> |
| <u>Compliance Test Methods and Procedures</u> | |
| <p>1. Method 5 of 40 CFR Part 60, Appendix A-3, shall be used in the determination of particulate emissions.</p> <p>2. Method 9 of 40 CFR Part 60, Appendix A-4, shall be used in the determination of opacity of stack emissions.</p> <p>3. The tests required by 40 CFR §63.11602(a) should be performed in accordance with the methods and procedures in 40 CFR §63.11602(a)(2)(iii).</p> | <p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p> <p>40 CFR §63.11602(a)(2)</p> |
| <u>Emission Monitoring</u> | |
| <p>1. An instantaneous visible emissions check shall be conducted at least once weekly during daylight hours of the stacks associated with these units.</p> <p>(a) If any visible emissions are noted from these sources, corrective action shall be initiated within two (2) hours.</p> <p>(b) After corrective action has been completed, a 12-minute visible emissions observation in accordance with Method 9 shall be conducted in order to confirm that no visible emissions are present from DC-21 and/or the average opacity of emissions from the BV-2 is less than 10% opacity.</p> <p>2. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the</p> | <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> |

| Federally Enforceable Provisos | Regulations |
|---|---|
| <p>pressure differential is within the manufacturer's recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range shall be initiated within two hours.</p> | |
| <p>3. The Permittee must inspect and maintain baghouse DC-21 according to the following requirements:</p> | <p>40 CFR §63.11602(a)(2)(ii) 40 CFR §63.11602(a)(2)</p> |
| <p>(a) The Permittee must conduct weekly visual inspections of any flexible ductwork for leaks.</p> | <p>40 CFR §63.11602(a)(2)(ii)(A)</p> |
| <p>(b) The Permittee must conduct inspections of the rigid, stationary ductwork for leaks, and the interior of the dry particulate control unit for structural integrity and to determine the condition of the fabric filter (if applicable) every 12 months.</p> | <p>40 CFR §63.11602(a)(2)(ii)(B)</p> |
| <p>(c) The Permittee must take corrective action when necessary.</p> | <p>40 CFR §63.11602(a)(2)</p> |
| <p>4. The Permittee must conduct a 5-minute visual determination of emissions from baghouse DC-21 every 3 months using Method 22 of 40 CFR Part 60, Appendix A-7.</p> | <p>40 CFR §63.11602(a)(2)(iii) 40 CFR §63.11602(a)(2)</p> |
| <p>(a) The visible emission test must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment.</p> | <p>40 CFR §63.11602(a)(2)(iii)</p> |
| <p>(b) If visible emissions are observed for two minutes of the required 5-minute observation period, the Permittee must conduct a Method 203C (40 CFR Part 51, Appendix M) test within 15 days of the time when visible emissions were observed. The Method 203C test will consist of three 1-minute test runs and must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel HAP to a process vessel or to the grinding and milling equipment. If the Method 203C test runs indicate an opacity greater than 10%, the Permittee must comply with the following requirements:</p> | <p>40 CFR §63.11602(a)(2)(iii)</p> |
| <p>(i) The Permittee must take corrective action and retest using Method 203C within 15 days. The Method 203C test will consist of three 1-minute test runs and must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. The Permittee must continue to take corrective action and retest each 15 days until a Method 203C test indicates an opacity equal to or less than 10%.</p> | <p>40 CFR §63.11602(a)(2)(iii)(A)</p> |
| <p>(ii) The Permittee must resume the visible determinations of emissions in accordance with the above 3 months after the previous visible determination.</p> | <p>40 CFR §63.11602(a)(2)(iii)(C)</p> |

| Federally Enforceable Provisos | Regulations |
|---|---|
| <p><u>Recordkeeping and Reporting Requirements</u></p> <ol style="list-style-type: none"> 1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years from the date of generation. 2. The Permittee shall maintain a record of each visible emissions check and Method 9 observation. This should include the date and time of the check/observation, observer name, results, problems observed, and corrective actions taken. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation form. 3. The Permittee shall maintain a record of the pressure differential readings required under this Permit. This shall include any problems observed and corrective actions taken. 4. The Permittee shall record the following information for each inspection and testing activity required by Emission Monitoring Provisos 3 & 4: <ol style="list-style-type: none"> (a) The date, place, and time; person conducting the activity; technique or method used; operating conditions during the activity; results; and description of correction [sic] actions taken. 5. The Permittee must prepare an annual compliance certification report according to the requirements in 40 CFR §63.11603(b)(1) through 40 CFR §63.11603(b)(3). This report does not need to be submitted unless a deviation from the requirements of MACT 7C has occurred. When a deviation from the requirements of MACT 7C has occurred, the annual compliance certification report must be submitted along with the deviation report. <ol style="list-style-type: none"> (a) The Permittee must prepare and, if applicable, submit each annual compliance certification report according to the dates specified below: <ol style="list-style-type: none"> (i) The first annual compliance certification report must cover the first annual reporting period which begins the day of the compliance date and ends on December 31. (ii) Each subsequent annual compliance certification report must cover the annual reporting period from January 1 through December 31. (iii) Each annual compliance certification report must be prepared no later than January 31 and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance certification report must be submitted along with the deviation report, and postmarked no later than February 15. (b) The annual compliance certification report must contain the following information: <ol style="list-style-type: none"> (i) Company name and address; | <p>Rule 335-3-16-.05(c) 40 CFR §63.11603(c)(5)</p> <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> <p>40 CFR §63.11602(a)(2)</p> <p>40 CFR §63.11602(b)</p> <p>40 CFR §63.11603(b)</p> <p>40 CFR §63.11603(b)(1)</p> <p>40 CFR §63.11603(b)(1)(i)</p> <p>40 CFR §63.11603(b)(1)(ii)</p> <p>40 CFR §63.11603(b)(1)(iii)</p> <p>40 CFR §63.11603(b)(2)</p> <p>40 CFR §63.11603(b)(2)(i)</p> |

| Federally Enforceable Provisos | Regulations |
|---|--|
| (ii) A statement in accordance with 40 CFR §63.9(h) of the General Provisions that is signed by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of MACT 7C; and | 40 CFR §63.11603(b)(2)(ii) |
| (iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 12-month period beginning on January 1 and ending on December 31. | 40 CFR §63.11603(b)(2)(iii) |
| (c) If a deviation has occurred during the reporting period, the Permittee must include a description of deviations from the applicable requirements, the time periods during which the deviations occurred, and the corrective actions taken. This deviation report must be submitted along with the annual compliance certification report, as required by 40 CFR §63.11603(b)(1)(iii). | 40 CFR §63.11603(b)(3) 40 CFR §63.11603(a)(2)(iii)(A) |
| 6. The Permittee must maintain the following records: | 40 CFR §63.11603(c) |
| (a) As required in 40 CFR §63.10(b)(2)(xiv), the Permittee must keep a copy of each notification that you submitted in accordance with 40 CFR §63.11603(a), and all documentation supporting any Notification of Applicability and Notification of Compliance Status that you submitted. | 40 CFR §63.11603(c)(1) |
| (b) The Permittee must keep a copy of each Annual Compliance Certification Report prepared in accordance with 40 CFR §63.11603(b). | 40 CFR §63.11603(c)(2) |
| (c) The Permittee must keep records of all inspections and tests as required by 40 CFR §63.11602(b). | 40 CFR §63.11603(c)(3) |
| (d) These records must be in a form suitable and readily available for expeditious review, according to 40 CFR §63.10(b)(1). | 40 CFR §63.11603(c)(4) |

Summary Page for Screening and Bagging

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission Limitations:

| Emission Point # | Description | Pollutant | Emission Limit | Regulation |
|---|--|-----------|--|---------------------|
| EU63-BV-1 This emission point vents indoors | EDS CL1 Hopper [EU37-A] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | No more than one six (6) minute average > 20% in any sixty minute period AND No six minute average > 40% in any sixty (60) minute period | Rule 335-3-4-.01(1) |
| EU52-DC-13 This emission point vents indoors | Screen S1 [EU25] Screen S2 [EU26-B] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | No more than one six (6) minute average > 20% in any sixty minute period AND No six minute average > 40% in any sixty (60) minute period | Rule 335-3-4-.01(1) |
| EU67-BV-5 This emission point vents indoors | Screen S2 Hopper [EU26-A] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | No more than one six (6) minute average > 20% in any sixty minute period AND No six minute average > 40% in any sixty (60) minute period | Rule 335-3-4-.01(1) |
| EU68-BV-6 This emission point vents indoors | Screen S3 Hopper [EU27-A] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | No more than one six (6) minute average > 20% in any sixty minute period AND No six minute average > 40% in any sixty (60) minute period | Rule 335-3-4-.01(1) |
| EU53-DC-15 | Screen S14 [EU34] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |

| Emission Point # | Description | Pollutant | Emission Limit | Regulation |
|------------------|---|-----------|------------------|------------------------|
| | Screen S3 [EU27-B] | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| | Screen S16 [EU36] | | | |
| EU57-DC-21 | Screen S15 [EU35] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU51-DC-12 | Screen S4 [EU28] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU47-DC-6 | Screen S6 [EU29-B] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | Screen S7 [EU30] | | | |
| | Screen S8 [EU31] | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| | Screen S9 [EU32] Screen S12 [EU33] | | | |
| EU60-DC-28 | Bulk Bag Operation [EU43] Kitting Station [EU44] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU110-DC-34 | Bulk Bag Unloading [EU102] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |

Provisos for Screening and Bagging

| Federally Enforceable Provisos | Regulations |
|--|--|
| <p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “Major Source Operating Permits”. 2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), “Control of Particulate Emissions – Visible Emissions”. 3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), “Control of Particulate Emissions for Process Industries – General”. 4. These sources are subject to the applicable requirements of 40 CFR 63 Subpart CCCCCC, “National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing” [MACT 7C]. <ol style="list-style-type: none"> (a) These sources are subject to the applicable requirements of 40 CFR 63 Subpart A, “General Provisions” as listed in Table 1 of MACT 7C. | <p>Rule 335-3-16-.03</p> <p>Rule 335-3-4-.01(1)</p> <p>Rule 335-3-4-.04(1)</p> <p>Rule 335-3-11-.06(158) 40 CFR §63.11599(b)</p> <p>Rule 335-3-11-.06(1) 40 CFR §63.11605</p> |
| <p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. Particulate matter emissions from these units shall not exceed that which is calculated using the process weight equation, as defined in ADEM Admin. Code r. 335-3-4-.04(1). 2. Visible emissions from these sources shall not exceed the standards set forth in General Permit Proviso No. 29. 3. The Permittee must comply with the following requirements at all times for these sources: <ol style="list-style-type: none"> (a) The Permittee must add the dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel and operate a capture system that minimizes fugitive particulate emissions during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling process. (b) The Permittee must capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to a process vessel. This requirement does not apply to pigments and other solids that are in paste, slurry, or liquid form. (c) The Permittee must meet one of the following requirements: <ol style="list-style-type: none"> (i) Capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the | <p>Rule 335-3-4-.04</p> <p>Rule 335-3-4-.01(1)</p> <p>40 CFR §63.11601(a)</p> <p>40 CFR §63.11601(a)(1)</p> <p>40 CFR §63.11601(a)(2)</p> <p>40 CFR §63.11601(a)(3)</p> <p>40 CFR §63.11601(a)(3)(i)</p> |

| Federally Enforceable Provisos | Regulations |
|---|---|
| <p>addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to the grinding and milling process, or</p> <p>(ii) Add pigments and other solids that contain compounds of cadmium, chromium, lead, or nickel to the grinding and milling process only in paste, slurry, or liquid form.</p> <p>(d) The Permittee must meet one of the following requirements:</p> <p>(i) Capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel; or</p> <p>(ii) Fully enclose the grinding and milling equipment during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel; or</p> <p>(iii) Ensure that the pigments and solids are in the solution during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel.</p> <p>(e) The visible emissions from DC-15, DC-21, DC-12, DC-6, DC-28, and DC-34 must not exceed 10-percent opacity.</p> | <p>40 CFR §63.11601(a)(3)(ii)</p> <p>40 CFR §63.11601(a)(4)</p> <p>40 CFR §63.11601(a)(4)(i)</p> <p>40 CFR §63.11601(a)(4)(ii)</p> <p>40 CFR §63.11601(a)(4)(iii)</p> <p>40 CFR §63.11601(a)(5)</p> |
| <p><u>Compliance Test Methods and Procedures</u></p> <p>1. Method 5 of 40 CFR Part 60, Appendix A-3, shall be used in the determination of particulate emissions.</p> <p>2. Method 9 of 40 CFR Part 60, Appendix A-4, shall be used in the determination of opacity of stack emissions.</p> <p>3. The tests required by 40 CFR §63.11602(a) should be performed in accordance with the methods and procedures in 40 CFR §63.11602(a)(2)(iii).</p> | <p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p> <p>40 CFR §63.11602(a)(2)</p> |
| <p><u>Emission Monitoring</u></p> <p>1. An instantaneous visible emissions check shall be conducted at least once weekly during daylight hours of the stacks associated with these units.</p> <p>(a) If any visible emissions are noted from these sources, corrective action shall be initiated within two (2) hours.</p> <p>(b) After corrective action has been completed, a 12-minute visible emissions observation in accordance with Method 9 shall be conducted in order to confirm that no visible emissions are present from DC-15, DC-21, DC-12, DC-6, DC-28, and DC-34 and/or the average opacity of emissions from the BV-1, DC-13, BV-5, and BV-6 is less than 10% opacity.</p> | <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> |

| Federally Enforceable Provisos | Regulations |
|---|---|
| <p>2. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range shall be initiated within two hours.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>3. The Permittee must inspect and maintain baghouses DC-15, DC-21, DC-12, DC-6, DC-28, and DC-34 according to the following requirements:</p> | <p>40 CFR §63.11602(a)(2)(ii) 40 CFR §63.11602(a)(2)</p> |
| <p>(a) The Permittee must conduct weekly visual inspections of any flexible ductwork for leaks.</p> | <p>40 CFR §63.11602(a)(2)(ii)(A)</p> |
| <p>(b) The Permittee must conduct inspections of the rigid, stationary ductwork for leaks, and the interior of the dry particulate control unit for structural integrity and to determine the condition of the fabric filter (if applicable) every 12 months.</p> | <p>40 CFR §63.11602(a)(2)(ii)(B)</p> |
| <p>(c) The Permittee must take corrective action when necessary.</p> | <p>40 CFR §63.11602(a)(2)</p> |
| <p>4. The Permittee must conduct a 5-minute visual determination of emissions from baghouses DC-15, DC-21, DC-12, DC-6, DC-28, and DC-34 every 3 months using Method 22 of 40 CFR Part 60, Appendix A-7.</p> | <p>40 CFR §63.11602(a)(2)(iii) 40 CFR §63.11602(a)(2)</p> |
| <p>(a) The visible emission test must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment.</p> | <p>40 CFR §63.11602(a)(2)(iii)</p> |
| <p>(b) If visible emissions are observed for two minutes of the required 5-minute observation period, the Permittee must conduct a Method 203C (40 CFR Part 51, Appendix M) test within 15 days of the time when visible emissions were observed. The Method 203C test will consist of three 1-minute test runs and must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel HAP to a process vessel or to the grinding and milling equipment. If the Method 203C test runs indicate an opacity greater than 10%, the Permittee must comply with the following requirements:</p> | <p>40 CFR §63.11602(a)(2)(iii)</p> |
| <p>(i) The Permittee must take corrective action and retest using Method 203C within 15 days. The Method 203C test will consist of three 1-minute test runs and must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. The Permittee must continue to take corrective action and retest each 15 days until a Method 203C test indicates an opacity equal to or less than 10%.</p> | <p>40 CFR §63.11602(a)(2)(iii)(A)</p> |

| Federally Enforceable Provisos | Regulations |
|---|--|
| (ii) The Permittee must resume the visible determinations of emissions in accordance with the above 3 months after the previous visible determination. | 40 CFR §63.11602(a)(2)(iii)(C) |
| <u>Recordkeeping and Reporting Requirements</u> | |
| 1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years from the date of generation. | Rule 335-3-16-.05(c) 40 CFR §63.11603(c)(5) |
| 2. The Permittee shall maintain a record of each visible emissions check and Method 9 observation. This should include the date and time of the check/observation, observer name, results, problems observed, and corrective actions taken. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation form. | Rule 335-3-16-.05(c) |
| 3. The Permittee shall maintain a record of the pressure differential readings required under this Permit. This shall include any problems observed and corrective actions taken. | Rule 335-3-16-.05(c) |
| 4. The Permittee shall record the following information for each inspection and testing activity required by Emission Monitoring Provisos 3 & 4: | 40 CFR §63.11602(a)(2) |
| (a) The date, place, and time; person conducting the activity; technique or method used; operating conditions during the activity; results; and description of correction [sic] actions taken. | 40 CFR §63.11602(b) |
| 5. The Permittee must prepare an annual compliance certification report according to the requirements in 40 CFR §63.11603(b)(1) through 40 CFR §63.11603(b)(3). This report does not need to be submitted unless a deviation from the requirements of MACT 7C has occurred. When a deviation from the requirements of MACT 7C has occurred, the annual compliance certification report must be submitted along with the deviation report. | 40 CFR §63.11603(b) |
| (a) The Permittee must prepare and, if applicable, submit each annual compliance certification report according to the dates specified below: | 40 CFR §63.11603(b)(1) |
| (i) The first annual compliance certification report must cover the first annual reporting period which begins the day of the compliance date and ends on December 31. | 40 CFR §63.11603(b)(1)(i) |
| (ii) Each subsequent annual compliance certification report must cover the annual reporting period from January 1 through December 31. | 40 CFR §63.11603(b)(1)(ii) |
| (iii) Each annual compliance certification report must be prepared no later than January 31 and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance certification report must be submitted along with the deviation report, and postmarked no later than February 15. | 40 CFR §63.11603(b)(1)(iii) |

| Federally Enforceable Provisos | Regulations |
|---|--|
| (b) The annual compliance certification report must contain the following information: | 40 CFR §63.11603(b)(2) |
| (i) Company name and address; | 40 CFR §63.11603(b)(2)(i) |
| (ii) A statement in accordance with 40 CFR §63.9(h) of the General Provisions that is signed by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of MACT 7C; and | 40 CFR §63.11603(b)(2)(ii) |
| (iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 12-month period beginning on January 1 and ending on December 31. | 40 CFR §63.11603(b)(2)(iii) |
| (c) If a deviation has occurred during the reporting period, the Permittee must include a description of deviations from the applicable requirements, the time periods during which the deviations occurred, and the corrective actions taken. This deviation report must be submitted along with the annual compliance certification report, as required by 40 CFR §63.11603(b)(1)(iii). | 40 CFR §63.11603(b)(3) 40 CFR §63.11603(a)(2)(iii)(A) |
| 6. The Permittee must maintain the following records: | 40 CFR §63.11603(c) |
| (a) As required in 40 CFR §63.10(b)(2)(xiv), the Permittee must keep a copy of each notification that you submitted in accordance with 40 CFR §63.11603(a), and all documentation supporting any Notification of Applicability and Notification of Compliance Status that you submitted. | 40 CFR §63.11603(c)(1) |
| (b) The Permittee must keep a copy of each Annual Compliance Certification Report prepared in accordance with 40 CFR §63.11603(b). | 40 CFR §63.11603(c)(2) |
| (c) The Permittee must keep records of all inspections and tests as required by 40 CFR §63.11602(b). | 40 CFR §63.11603(c)(3) |
| (d) These records must be in a form suitable and readily available for expeditious review, according to 40 CFR §63.10(b)(1). | 40 CFR §63.11603(c)(4) |

Summary Page for Weighing Operations

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission Limitations:

| Emission Point # | Description | Pollutant | Emission Limit | Regulation |
|--------------------------|---|-----------|----------------------|------------------------------|
| EU49-DC-8 | Spec Weighing [EU45] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU50 – DC-10 | Weigh Station Single Scale [EU46] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU50-DC-10 EU61-DC-31 | Weigh Station Scales 1-2 with Side Feeder [EU39A] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU50-DC-10 | Weigh Station Scales 3-4 with Side Feeder [EU39B] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU101-DC-1702 | Weigh Station Scales 3-4 with Side Feeder [EU39B] | PM | 0.01 grains per dscf | Rule 335-3-14-.04 [Anti-PSD] |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |
| EU50-DC-10 | Weigh Station Scales 5-6 with Side Feeder [EU39C] | PM | $E=3.59P^{0.62}$ | Rule 335-3-4-.04(1) |
| | | Opacity | 10% | 40 CFR §63.11601(a)(5) |

Provisos for Weighing Operations

| Federally Enforceable Provisos | Regulations |
|--|---|
| <p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “Major Source Operating Permits”. 2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), “Control of Particulate Emissions – Visible Emissions”. 3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), “Control of Particulate Emissions for Process Industries – General”. 4. DC-1702 has an enforceable limit in place in order prevent it from being subject to the applicable provisions of ADEM Admin. Code r. 335-3-14-.04, “Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration Permitting (PSD)]”. 5. These sources are subject to the applicable requirements of 40 CFR 63 Subpart CCCCCC, “National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing” [MACT 7C]. <ol style="list-style-type: none"> (a) These sources are subject to the applicable requirements of 40 CFR 63 Subpart A, “General Provisions” as listed in Table 1 of MACT 7C. | <p>Rule 335-3-16-.03</p> <p>Rule 335-3-4-.01(1)</p> <p>Rule 335-3-4-.04(1)</p> <p>Rule 335-3-14-.04 [Anti-PSD]</p> <p>Rule 335-3-11-.06(158) 40 CFR §63.11599(b)</p> <p>Rule 335-3-11-.06(1) 40 CFR §63.11605</p> |
| <p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. Particulate matter emissions from these units shall not exceed that which is calculated using the process weight equation, as defined in ADEM Admin. Code r. 335-3-4-.04(1). 2. Visible emissions from these sources shall not exceed the standards set forth in General Permit Proviso No. 29. 3. Particulate matter emissions from baghouse DC-1702 shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf) of exhaust air each. 4. The Permittee must comply with the following requirements at all times for these sources: <ol style="list-style-type: none"> (a) The Permittee must add the dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel and operate a capture system that minimizes fugitive particulate emissions during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling process. (b) The Permittee must capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR | <p>Rule 335-3-4-.04</p> <p>Rule 335-3-4-.01(1)</p> <p>Rule 335-3-14-.04 [Anti-PSD]</p> <p>40 CFR §63.11601(a)</p> <p>40 CFR §63.11601(a)(1)</p> <p>40 CFR §63.11601(a)(2)</p> |

| Federally Enforceable Provisos | Regulations |
|--|--|
| <p>§63.11601(a)(5) during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to a process vessel. This requirement does not apply to pigments and other solids that are in paste, slurry, or liquid form.</p> <p>(c) The Permittee must meet one of the following requirements:</p> <p>(i) Capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to the grinding and milling process, or</p> <p>(ii) Add pigments and other solids that contain compounds of cadmium, chromium, lead, or nickel to the grinding and milling process only in paste, slurry, or liquid form.</p> <p>(d) The Permittee must meet one of the following requirements:</p> <p>(i) Capture particulate emissions and route them to a particulate control device meeting the requirements of 40 CFR §63.11601(a)(5) during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel; or</p> <p>(ii) Fully enclose the grinding and milling equipment during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel; or</p> <p>(iii) Ensure that the pigments and solids are in the solution during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel.</p> <p>(e) The visible emissions from DC-8, DC-10, DC-31, and DC-1702 must not exceed 10-percent opacity.</p> | <p>40 CFR §63.11601(a)(3)</p> <p>40 CFR §63.11601(a)(3)(i)</p> <p>40 CFR §63.11601(a)(3)(ii)</p> <p>40 CFR §63.11601(a)(4)</p> <p>40 CFR §63.11601(a)(4)(i)</p> <p>40 CFR §63.11601(a)(4)(ii)</p> <p>40 CFR §63.11601(a)(4)(iii)</p> <p>40 CFR §63.11601(a)(5)</p> |
| <u>Compliance Test Methods and Procedures</u> | |
| 1. Method 5 of 40 CFR Part 60, Appendix A-3, shall be used in the determination of particulate emissions. | Rule 335-3-1-.05 |
| 2. Method 9 of 40 CFR Part 60, Appendix A-4, shall be used in the determination of opacity of stack emissions. | Rule 335-3-1-.05 |
| 3. The tests required by 40 CFR §63.11602(a) should be performed in accordance with the methods and procedures in 40 CFR §63.11602(a)(2)(iii). | 40 CFR §63.11602(a)(2) |
| <u>Emission Monitoring</u> | |
| 1. An instantaneous visible emissions check shall be conducted at least once weekly during daylight hours of the stacks associated with these units. | |

| Federally Enforceable Provisos | Regulations |
|--|---|
| (a) If any visible emissions are noted from these sources, corrective action shall be initiated within two (2) hours. | Rule 335-3-16-.05(c) |
| (b) After corrective action has been completed, a 12-minute visible emissions observation in accordance with Method 9 shall be conducted in order to confirm that no visible emissions are present from the DC-8, DC-10, DC-31, and DC-1702. | Rule 335-3-16-.05(c) |
| 2. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range shall be initiated within two hours. | Rule 335-3-16-.05(c) |
| 3. The Permittee must inspect and maintain baghouses from DC-8, DC-10, DC-31, and DC-1702 according to the following requirements: | 40 CFR §63.11602(a)(2)(ii) 40 CFR §63.11602(a)(2) |
| (a) The Permittee must conduct weekly visual inspections of any flexible ductwork for leaks. | 40 CFR §63.11602(a)(2)(ii)(A) |
| (b) The Permittee must conduct inspections of the rigid, stationary ductwork for leaks, and the interior of the dry particulate control unit for structural integrity and to determine the condition of the fabric filter (if applicable) every 12 months. | 40 CFR §63.11602(a)(2)(ii)(B) |
| (c) The Permittee must take corrective action when necessary. | 40 CFR §63.11602(a)(2) |
| 4. The Permittee must conduct a 5-minute visual determination of emissions from baghouses DC-8, DC-10, DC-31, and DC-1702 every 3 months using Method 22 of 40 CFR Part 60, Appendix A-7. | 40 CFR §63.11602(a)(2)(iii) 40 CFR §63.11602(a)(2) |
| (a) The visible emission test must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. | 40 CFR §63.11602(a)(2)(iii) |
| (b) If visible emissions are observed for two minutes of the required 5-minute observation period, the Permittee must conduct a Method 203C (40 CFR Part 51, Appendix M) test within 15 days of the time when visible emissions were observed. The Method 203C test will consist of three 1-minute test runs and must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel HAP to a process vessel or to the grinding and milling equipment. If the Method 203C test runs indicate an opacity greater than 10%, the Permittee must comply with the following requirements: | 40 CFR §63.11602(a)(2)(iii) |
| (i) The Permittee must take corrective action and retest using Method 203C within 15 days. The Method 203C test will consist of three 1-minute test | 40 CFR §63.11602(a)(2)(iii)(A) |

| Federally Enforceable Provisos | Regulations |
|--|--|
| <p>runs and must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. The Permittee must continue to take corrective action and retest each 15 days until a Method 203C test indicates an opacity equal to or less than 10%.</p> <p>(ii) The Permittee must resume the visible determinations of emissions in accordance with the above 3 months after the previous visible determination.</p> | <p>40 CFR §63.11602(a)(2)(iii)(C)</p> |
| <p><u>Recordkeeping and Reporting Requirements</u></p> | |
| <p>1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years from the date of generation.</p> | <p>Rule 335-3-16-.05(c) 40 CFR §63.11603(c)(5)</p> |
| <p>2. The Permittee shall maintain a record of each visible emissions check and Method 9 observation. This should include the date and time of the check/observation, observer name, results, problems observed, and corrective actions taken. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation form.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>3. The Permittee shall maintain a record of the pressure differential readings required under this Permit. This shall include any problems observed and corrective actions taken.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>4. The Permittee shall record the following information for each inspection and testing activity required by Emission Monitoring Provisos 3 & 4:</p> | <p>40 CFR §63.11602(a)(2)</p> |
| <p>(a) The date, place, and time; person conducting the activity; technique or method used; operating conditions during the activity; results; and description of correction [sic] actions taken.</p> | <p>40 CFR §63.11602(b)</p> |
| <p>5. The Permittee must prepare an annual compliance certification report according to the requirements in 40 CFR §63.11603(b)(1) through 40 CFR §63.11603(b)(3). This report does not need to be submitted unless a deviation from the requirements of MACT 7C has occurred. When a deviation from the requirements of MACT 7C has occurred, the annual compliance certification report must be submitted along with the deviation report.</p> | <p>40 CFR §63.11603(b)</p> |
| <p>(a) The Permittee must prepare and, if applicable, submit each annual compliance certification report according to the dates specified below:</p> | <p>40 CFR §63.11603(b)(1)</p> |
| <p>(i) The first annual compliance certification report must cover the first annual reporting period which begins the day of the compliance date and ends on December 31.</p> | <p>40 CFR §63.11603(b)(1)(i)</p> |
| <p>(ii) Each subsequent annual compliance certification report must cover the annual reporting period from January 1 through December 31.</p> | <p>40 CFR §63.11603(b)(1)(ii)</p> |

| Federally Enforceable Provisos | Regulations |
|---|--|
| (iii) Each annual compliance certification report must be prepared no later than January 31 and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance certification report must be submitted along with the deviation report, and postmarked no later than February 15. | 40 CFR §63.11603(b)(1)(iii) |
| (b) The annual compliance certification report must contain the following information: | 40 CFR §63.11603(b)(2) |
| (i) Company name and address; | 40 CFR §63.11603(b)(2)(i) |
| (ii) A statement in accordance with 40 CFR §63.9(h) of the General Provisions that is signed by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of MACT 7C; and | 40 CFR §63.11603(b)(2)(ii) |
| (iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 12-month period beginning on January 1 and ending on December 31. | 40 CFR §63.11603(b)(2)(iii) |
| (c) If a deviation has occurred during the reporting period, the Permittee must include a description of deviations from the applicable requirements, the time periods during which the deviations occurred, and the corrective actions taken. This deviation report must be submitted along with the annual compliance certification report, as required by 40 CFR §63.11603(b)(1)(iii). | 40 CFR §63.11603(b)(3) 40 CFR §63.11603(a)(2)(iii)(A) |
| 6. The Permittee must maintain the following records: | 40 CFR §63.11603(c) |
| (a) As required in 40 CFR §63.10(b)(2)(xiv), the Permittee must keep a copy of each notification that you submitted in accordance with 40 CFR §63.11603(a), and all documentation supporting any Notification of Applicability and Notification of Compliance Status that you submitted. | 40 CFR §63.11603(c)(1) |
| (b) The Permittee must keep a copy of each Annual Compliance Certification Report prepared in accordance with 40 CFR §63.11603(b). | 40 CFR §63.11603(c)(2) |
| (c) The Permittee must keep records of all inspections and tests as required by 40 CFR §63.11602(b). | 40 CFR §63.11603(c)(3) |
| (d) These records must be in a form suitable and readily available for expeditious review, according to 40 CFR §63.10(b)(1). | 40 CFR §63.11603(c)(4) |

Summary Page for Glass Color Concentrate Production Line Operation

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission Limitations:

| Emission Point # | Description | Pollutant | Emission Limit | Regulation |
|------------------------------------|--|-----------|---|------------------------------|
| EU69 – GCC DC-1 EU70 – GCC DC-2 | Glass Color Concentrate Production Line controlled by two baghouses | PM | 0.01 grains per dscf | Rule 335-3-14-.04 [Anti-PSD] |
| | | Opacity | No more than one six (6) minute average > 20% in any sixty minute period AND No six minute average > 40% in any sixty (60) minute period | Rule 335-3-4-.01 |

Provisos for Glass Color Concentrate Production Line Operation

| Federally Enforceable Provisos | Regulations |
|--|--|
| <p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits". 2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), "Control of Particulate Emissions – Visible Emissions". 3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04(1), "Control of Particulate Emissions for Process Industries – General". 4. These sources have enforceable limits in place in order prevent them from being subject to the applicable provisions of ADEM Admin. Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration Permitting (PSD)]". | <p>Rule 335-3-16-.03</p> <p>Rule 335-3-4-.01(1)</p> <p>Rule 335-3-4-.04(1)</p> <p>Rule 335-3-14-.04 [Anti-PSD]</p> |
| <p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. Particulate matter emissions from these units shall not exceed that which is calculated using the process weight equation, as defined in ADEM Admin. Code r. 335-3-4-.04(1). 2. Visible emissions from these sources shall not exceed the standards set forth in General Permit Proviso No. 29. 3. Particulate matter emissions from each baghouse shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf) of exhaust air each. | <p>Rule 335-3-4-.04</p> <p>Rule 335-3-4-.01(1)</p> <p>Rule 335-3-14-.04 [Anti-PSD]</p> |
| <p><u>Compliance Test Methods and Procedures</u></p> <ol style="list-style-type: none"> 1. Method 5 of 40 CFR Part 60, Appendix A-3 shall be used in the determination of particulate emissions. 2. Method 9 of 40 CFR Part 60, Appendix A-4 shall be used in the determination of opacity of stack emissions. | <p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p> |
| <p><u>Emission Monitoring</u></p> <ol style="list-style-type: none"> 1. An instantaneous visible emissions check shall be conducted at least once weekly during daylight hours of the stacks associated with the Glass Concentrate Production Line Operation while the sources are in operation. <ol style="list-style-type: none"> (a) If any visible emissions are noted from these sources, corrective action shall be initiated within two (2) hours. | <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> |

| Federally Enforceable Provisos | Regulations |
|---|---|
| <p>(b) After corrective action has been completed, a 12-minute visible emissions observation in accordance with Method 9 shall be conducted in order to confirm that the average opacity of emissions from the stacks associated with the Glass Concentrate Production Line Operation is less than 10% opacity.</p> <p>2. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range shall be initiated within two hours.</p> | <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p> |
| <p><u>Recordkeeping and Reporting Requirements</u></p> | |
| <p>1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years from the date of generation.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>2. The Permittee shall maintain a record of each visible emissions check and Method 9 observation. This should include the date and time of the check/observation, observer name, results, problems observed, and corrective actions taken. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation form.</p> | <p>Rule 335-3-16-.05(c)</p> |
| <p>3. The Permittee shall maintain a record of the pressure differential readings required under this Permit. This shall include any problems observed and corrective actions taken.</p> | <p>Rule 335-3-16-.05(c)</p> |

Summary Page for Emergency Generator

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8,760 Hrs/yr

Emission Limitations:

| Emission Point # | Description | Pollutant | Emission Limit | Regulation |
|------------------|---------------------|-----------------|--|--|
| EU111 | Emergency Generator | NO _x | 2.0 g/HP-hr | 40 CFR §60.4233(e) Table 1 to NSPS JJJJ |
| | | CO | 4.0 g/HP-hr | 40 CFR §60.4233(e) Table 1 to NSPS JJJJ |
| | | VOC | 1.0 g/HP-hr | 40 CFR §60.4233(e) Table 1 to NSPS JJJJ |
| | | Opacity | No more than one six (6) minute average > 20% in any sixty minute period AND No six minute average > 40% in any sixty (60) minute period | Rule 335-3-4-.01 |

Provisos for Emergency Generator

| Federally Enforceable Provisos | Regulations |
|--|--|
| <p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "<i>Major Source Operating Permits</i>". 2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), "<i>Visible Emissions</i>". 3. This source must meet the requirements of 40 CFR Part 63, Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart JJJJ. <ol style="list-style-type: none"> (a) This source is subject to the applicable requirements of 40 CFR Part 60, Subpart JJJJ, "Standards of Performance for Stationary Spark Ignition Internal Combustion Engines" [NSPS JJJJ]. (b) This source is subject to the applicable requirements of Subpart A of 40 CFR Part 60, "General Provisions", as listed in Table 3 of NSPS JJJJ. | <p>Rule 335-3-16-.03</p> <p>Rule 335-3-4-.01(1)</p> <p>40 CFR §63.6590(c)(1)</p> <p>Rule 335-3-10-.02(88) 40 CFR §60.4230(a)(4)(iv)</p> <p>Rule 335-3-10-.02(1) 40 CFR §60.4246</p> |
| <p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. This unit shall operate using only natural gas. 2. Visible emissions from this source shall not exceed the standards set forth in General Permit Proviso No. 29. 3. Nitrogen oxide (NO_x) emissions from the engine shall not exceed 2.0 g/HP-hr. 4. Carbon Monoxide (CO) emissions from the engine shall not exceed 4.0 g/HP-hr. 5. Volatile Organic Compound (VOC) emissions from the engine shall not exceed 1.0 g/HP-hr. 6. This unit must be certified according to NSPS JJJJ for the same model year and maximum engine power and demonstrate compliance by one of the methods specified in 40 CFR §60.4243(b). 7. This unit may be operated 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 this unit is limited to 100 hours per year. There is no time limit on the use of this unit in emergency situations. The owner or operator may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. This unit may operate up to 50 | <p>Rule 335-3-16-.05(a)</p> <p>Rule 335-3-4-.01(1)</p> <p>40 CFR §60.4233(e) Table 1 of NSPS JJJJ</p> <p>40 CFR §60.4233(e) Table 1 of NSPS JJJJ</p> <p>40 CFR §60.4233(e) Table 1 of NSPS JJJJ</p> <p>40 CFR §60.4243(b)(1)</p> <p>40 CFR §60.4243(d)</p> |

| Federally Enforceable Provisos | Regulations |
|--|---------------------------|
| <p>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 non-emergency power as part of a financial arrangement with another entity. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in NSPS JJJJ, is prohibited.</p> | |
| <p><u>Compliance Test Methods and Procedures</u></p> | |
| <p>1. Method 7E of 40 CFR Part 60, Appendix A-4 shall be used in the determination of nitrogen oxide emissions.</p> | <p>Rule 335-3-1-.05</p> |
| <p>2. Method 9 of 40 CFR Part 60, Appendix A-4 shall be used in the determination of opacity of the stack emissions.</p> | <p>Rule 335-3-1-.05</p> |
| <p>3. Method 10 of 40 CFR Part 60, Appendix A-4 shall be used in the determination of carbon monoxide emissions.</p> | <p>Rule 335-3-1-.05</p> |
| <p>4. Method 18 and 25A of 40 CFR Part 60, Appendices A-6 and A-7, respectively, shall be used in the determination of VOC emissions.</p> | <p>Rule 335-3-1-.05</p> |
| <p><u>Emission Monitoring</u></p> | |
| <p>1. The Permittee must install a non-resettable hour meter prior to startup of the engine.</p> | <p>40 CFR §60.4237(b)</p> |
| <p><u>Recordkeeping and Reporting Requirements</u></p> | |
| <p>1. The Permittee shall maintain files of all information (including all reports and notifications) required by NSPS JJJJ for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The following records shall be kept:</p> <p>(a) All notifications submitted to comply with NSPS JJJJ and all documentation supporting any notification.</p> <p>(b) Maintenance conducted on the unit.</p> <p>(c) Documentation from the manufacturer that the engine is certified to meet the emission standards.</p> | <p>40 CFR §60.4245(a)</p> |
| <p>2. The facility shall maintain a record of the hours of operation for the unit that is recorded through the non-resettable hour meter. The facility must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. These records</p> | <p>40 CFR §60.4245(b)</p> |

| Federally Enforceable Provisos | Regulations |
|--|--|
| <p>shall be maintained in a form suitable for inspection for a period of at least five (5) years.</p> <p>3. The Permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice of minimizing emissions.</p> <p>4. The Permittee shall keep monthly records of the engine's operating hours and type of fuel used in a form suitable for inspection for a period of at least 5 years.</p> | <p>40 CFR §60.4243(b)(2)</p> <p>Rule 335-3-16-.05(c)</p> |