



Alabama Department of Environmental Management
adem.alabama.gov

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March 11, 2015

Mr. Travis J. Reed
Environmental Manager
Argos Cement, LLC
P.O. Box 182
8039 Highway 25 West
Calera, AL 35040

**RE: Major Source Operating Permit
Argos Cement, LLC – Roberta Plant
Calera, Shelby County, AL
Facility No. 411-0004**

Dear Mr. Reed:

The enclosed renewal Major Source Operating Permit (MSOP) No. 411-0004 is issued pursuant to the Department's air pollution control rules and regulations.

Please note the conditions which must be observed in order to retain this permit; specifically, General Permit Proviso No. 12, *Compliance Certification*. As stated in General Proviso No. 12, a compliance certification shall be submitted annually within sixty (60) calendar days of the anniversary date of issuance. The previously issued MSOP for this facility is superseded by this permit.

The enclosed permit expires on March 10, 2020. A renewal application should be submitted to the Department at least six (6) months prior to the expiration date.

If you have any questions or require clarification of any permit conditions, please contact Christopher Osborne at (334) 271-7890 in Montgomery.

Sincerely,

A handwritten signature in black ink, appearing to read "RWG", is written over a faint, light-colored signature line.

Ronald W. Gore, Chief
Air Division

RWG/CLO:clo

Enclosure



MAJOR SOURCE OPERATING PERMIT

Permittee: **ARGOS CEMENT, LLC**
Facility Name: **ARGOS CEMENT, LLC - ROBERTA PLANT**
Facility No.: 411-0004
Location: CALERA, SHELBY COUNTY, ALABAMA

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act, §§22-28-1 to 22-28-23, Ala. Code (1997 Rplc. Vol. and 2006 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, Ala. Code, §§22-22A-1 to 22-22A-16 (1997 Rplc. Vol. and 2006 Cum. Supp.), and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

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

Issuance Date: *March 11, 2015*

Expiration Date: *March 10, 2020*

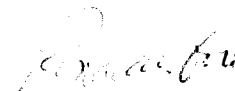


TABLE OF CONTENTS

GENERAL PERMIT PROVISOS	4
SUMMARY PAGE FOR STONE PROCESSING PLANT	15
PROVISOS FOR STONE PROCESSING PLANT	17
<i>Applicability.....</i>	<i>17</i>
<i>Emissions Standards.....</i>	<i>17</i>
<i>Compliance and Performance Test Methods and Procedures</i>	<i>17</i>
<i>Emissions Monitoring.....</i>	<i>18</i>
<i>Recordkeeping and Reporting Requirements.....</i>	<i>18</i>
SUMMARY PAGE FOR RAW MATERIAL HANDLING & RAW MILL.....	20
PROVISOS FOR RAW MATERIAL HANDLING & RAW MILL	22
<i>Applicability.....</i>	<i>22</i>
<i>Emissions Standards.....</i>	<i>22</i>
<i>Compliance and Performance Test Methods and Procedures</i>	<i>24</i>
<i>Emissions Monitoring.....</i>	<i>24</i>
<i>Recordkeeping and Reporting Requirements.....</i>	<i>25</i>
SUMMARY PAGE FOR FUEL PROCESSING & HANDLING.....	28
CEMENT KILN & CLINKER COOLER.....	28
PROVISOS FOR FUEL PROCESSING & HANDLING	31
<i>Applicability.....</i>	<i>31</i>
<i>Emissions Standards.....</i>	<i>31</i>
<i>Compliance and Performance Test Methods and Procedures</i>	<i>35</i>
<i>Emissions Monitoring.....</i>	<i>36</i>
<i>Recordkeeping and Reporting Requirements.....</i>	<i>46</i>
SUMMARY PAGE FOR CLINKER HANDLING & GRINDING	62
PROVISOS FOR CLINKER HANDLING & GRINDING.....	64
<i>Applicability.....</i>	<i>64</i>
<i>Emission Standards</i>	<i>64</i>
<i>Compliance and Performance Test Methods and Procedures</i>	<i>66</i>

<i>Emission Monitoring</i>	67
<i>Recordkeeping and Reporting Requirements</i>	68
SUMMARY PAGE FOR FINISHED PRODUCT HANDLING & STORAGE	70
PROVISOS FOR FINISHED PRODUCT HANDLING & STORAGE	72
<i>Applicability</i>	72
<i>Emission Standards</i>	72
<i>Compliance and Performance Test Methods and Procedures</i>	74
<i>Emission Monitoring</i>	74
<i>Recordkeeping and Reporting Requirements</i>	75
SUMMARY PAGE FOR PETROLEUM STORAGE	76
PROVISOS FOR PETROLEUM STORAGE	77
<i>Applicability</i>	77
<i>Emission Standards</i>	77
<i>Compliance and Performance Test Methods and Procedures</i>	77
<i>Emission Monitoring</i>	77
<i>Recordkeeping and Reporting Requirements</i>	77

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

General Permit Provisos

Federally Enforceable Provisos	Regulations
<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>ADEM Admin Code. r 335-3-16-.05(h)</p>
<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	<p>ADEM Admin Code. r 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>ADEM Admin Code. r 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>ADEM Admin Code. r 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>ADEM Admin Code. r 335-3-16-.07(a)</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<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> <ul style="list-style-type: none"> a. Enter upon the Permittee’s premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; b. Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; c. Inspect, at reasonable times, this facility’s equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; d. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. 	<p>ADEM Admin Code. r 335-3-16-.07(b)</p>
<p>11. <u>Compliance Provisions</u></p> <ul style="list-style-type: none"> a. The Permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. b. The Permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. 	<p>ADEM Admin Code. r 335-3-16-.07(c)</p>
<p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted no later than May 10th of each year.</p> <ul style="list-style-type: none"> a. The compliance certification shall include the following: <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; 	<p>ADEM Admin Code. r 335-3-16-.07(e)</p>

General Permit Provisos

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

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>d. The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	
<p>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), <u>Code of Alabama 1975</u>, as amended</p>
<p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>a. In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <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. <p>b. In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and</p>	<p>ADEM Admin Code. r 335-3-1-.07(1),(2)</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>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), <u>Code of Alabama 1975</u>, 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>ADEM Admin Code. r 335-3-1-.08</p>
<p>18. <u>Fugitive Dust</u></p> <p>a. Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>b. Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p>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;</p> <p>ii. By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p> <p>iii. By paving;</p> <p>iv. By the application of binders to the road surface at any time the road surface is found to allow the</p>	<p>ADEM Admin Code. r 335-3-4-.02</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>creation of dust emissions;</p> <p>v. By any combination of the above methods which results in the prevention of dust becoming airborne from the road surface.</p> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p>	
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>ADEM Admin Code. r 335-3-16-.13 and .14</p>
<p>20. <u>Recordkeeping Requirements</u></p> <p>a. Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none"> 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>ADEM Admin Code. r 335-3-16-.05(c)2</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<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>ADEM Admin Code. r 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>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <ol style="list-style-type: none"> 1. The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests. 2. A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning). 3. A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity. 4. A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and 	<p>ADEM Admin Code. r 335-3-1-.05(3) and ADEM Admin Code. r 335-3-1-.04(1)</p> <p>ADEM Admin Code. r 335-3-1-.04</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>downstream gas flow disturbances.</p> <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 60 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	<p>ADEM Admin Code. r 335-3-1-.04</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>ADEM Admin Code. r 335-1-7-.04</p>
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	<p>ADEM Admin Code. r 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, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p>	<p>40 CFR Part 82</p>
<p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity</p>	<p>40 CFR Part 68</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>listed in Table 1, then:</p> <ul style="list-style-type: none"> a The owner or operator shall comply with the provisions in 40 CFR Part 68. b The owner or operator shall submit one of the following: <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 Part 68 § 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>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>ADEM Admin Code. r 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>ADEM Admin Code. r 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>ADEM Admin Code. r 335-3-4-.01(1)</p>
<p>30. <u>Fuel-Burning Equipment</u></p> <ul style="list-style-type: none"> 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 	<p>ADEM Admin Code. r 335-3-4-.03</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>in Part 335-3-4-.03.</p> <p>b. Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.</p>	<p>ADEM Admin Code. r 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 Part 335-3-4-.04.</p>	<p>ADEM Admin Code. r 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>ADEM Admin Code. r 335-3-1-.05</p>

Summary Page for Stone Processing Plant Area 100

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
20-CR-411 & 20-HP-410	Gyratory Crusher & Hopper	Opacity	15%	40 CFR, Subpart OOO: §60.672(c)
20-CR-448 20-CR-449	Primary Roll Crusher Secondary Roll Crusher			
20-VF-412 20-VF-414	Vibrating Feeders	Opacity	10%	40 CFR, Subpart OOO: §60.672(b)
EU-159 EU-163 EU-165 EU-166 20-BC-413 20-BC-417 20-BC-418 20-BC-420 20-BC-438 20-BC-447 20-BC-450 20-BC-451 20-BC-453 20-BC-456 20-BC-460 20-BC-469 20-BC-471 20-BC-473 20-BC-482 20-BC-486 20-BC-491 20-BC-493	Belt Conveyors			
20-VS-452	Impactor & Screen			
20-VF-430 20-VF-431 20-VF-432 20-VF-433 20-VF-434 20-VF-435 20-VF-436	Vibratory Feeders			
20-SI-426	HiMag Cement Rock Stacking Tube			
20-SI-427	HiCal Cement Rock Stacking Tube			
20-SI-428	HiCal Lime Rock Stacking Tube			

20-SI-429	Blended HiMag Lime Rock Stacking Tube			
20-ST-465	Limestone/Clay Stacker			
20-RE-467	Limestone/Clay Reclaimer			
20-HF-468 20-HF-490	Hoppers	Opacity	10%	40 CFR, Subpart OOO: §60.672(b)
20-HP-480 20-HF-468	Coal/Coke Hoppers	Opacity	20%	40 CFR, Subpart Y: 60.252(c)
20-BC-482 20-BC-486 20-BC-493	Coal/Coke Belt Conveyors			
20-ST-487	Coal/Coke Stockpile Stacker			
20-RE-492	Coal/Coke Stockpile Reclaimer			
20-CR-445	Secondary Impactor Crusher, Limestone and Shale	Opacity	10%	40 CFR, Subpart OOO: §60.672(b)
20-CR-448	Clay Roll Primary Crusher	Opacity	10%	40 CFR, Subpart OOO: §60.672(b)
20-CR-449	Clay Roll Secondary Crusher	Opacity	10%	40 CFR, Subpart OOO: §60.672(b)

Provisos for Stone Processing Plant Area 100

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, " <i>Major Source Operating Permits.</i> "	ADEM Admin Code r. 335-3-16-.03
2. This system has sources that are subject to the applicable requirements of 40 CFR 60, Subpart 000 (<i>New Source Performance Standards for Nonmetallic Mineral Processing Plants</i>).	40 CFR, 60 Subpart 000
3. This system has sources that are subject to the applicable requirements of 40 CFR 60, Subpart Y (<i>New Source Performance Standards for Coal Preparation Plants</i>).	40 CFR, 60 Subpart Y
<u>Emissions Standards</u>	
1. No source associated with Area 100 (except crushing activities) that is subject to 40 CFR 60, Subpart 000, shall discharge to the atmosphere fugitive emissions greater than 10% opacity.	40 CFR, Subpart 000: §60.672(b)
2. No crusher associated with Area 100 shall discharge to the atmosphere fugitive emissions greater than 15% opacity.	40 CFR, Subpart 000: 60.672(c)
3. No source associated with Area 100 that is subject to 40 CFR 60, Subpart Y, shall discharge to the atmosphere emissions greater than 20% opacity.	40 CFR, 60 Subpart Y: 60.252(c)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 22, as found in Appendix A of 40 CFR 60, shall be used to determine the presence of fugitive emissions. This method shall be implemented only to determine the presence of fugitive emissions; documentation of sky conditions, wind speed and direction, etc. are not required for the purposes of the visual checks required in this Section.	ADEM Admin Code r. 335-3-1-.05
2. Method 9 of 40 CFR 60, Appendix A, shall be used in the determination of opacity.	ADEM Admin Code r. 335-3-1-.05
3. Coal/Coke hoppers, belt conveyors, stockpiles, and reclaimer associated with Area 100 are subject to 40 CFR 60, Subpart Y, "Performance test and other compliance requirements".	40 CFR 60, Subpart Y: §60.255

Federally Enforceable Provisos	Regulations
4. Coal/Coke hoppers, belt conveyors, stockpiles, and reclaimer associated with Area 100 are subject to 40 CFR 60, Subpart Y, "Test methods and procedures".	40 CFR 60, Subpart Y: §60.257
5. These sources (other than the coal/coke hoppers, belt conveyors, stockpiles, and reclaimer) are subject to the applicable requirements outlined in 40 CFR 60: Subpart OOO, "Test methods and procedures".	40 CFR 60, Subpart OOO: §60.675
<u>Emissions Monitoring</u>	
1. The Permittee shall conduct a visual check of each source associated with Area 100 at least once per week.	ADEM Admin Code r. 335-3-16-.05(c)
2. If any fugitive emissions are observed during the above-referenced visual checks, corrective action shall be initiated within 2 hours to eliminate the emissions. This corrective action may include (but may not be limited to) applying water to the materials being handled within the system. After the corrective action has been completed, the Permittee shall conduct another visual check to ensure that the fugitive emissions have been eliminated.	ADEM Admin Code r. 335-3-16-.05(c)
3. These sources (other than the coal/coke hoppers, belt conveyors, stockpiles, and reclaimer) are subject to the applicable requirements outlined in 40 CFR 60: Subpart OOO, "Standard for particulate matter (PM)".	40 CFR 60, Subpart OOO: §60.672
4. Coal/Coke hoppers, belt conveyors, stockpiles, and reclaimer associated with Area 100 are subject to 40 CFR 60, Subpart Y, "Performance test and other compliance requirements".	40 CFR 60, Subpart Y §60.255
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of all visual checks and corrective actions taken, as well as follow-up visual checks, shall be maintained in a form suitable for inspection and kept on site for a period of at least 5 years.	ADEM Admin Code r. 335-3-16-.05(c)
2. These sources (other than the coal/coke hoppers, belt conveyors, stockpiles, and reclaimer) are subject to the applicable requirements outlined in 40 CFR 60, Subpart OOO.	40 CFR 63 Subpart OOO: §60.676
3. Coal/Coke hoppers, belt conveyors, stockpiles, and reclaimer associated with Area 100 are subject to 40 CFR 60, Subpart Y, "Reporting and requirements".	40 CFR 60, Subpart Y: §60.258

Federally Enforceable Provisos

Regulations

4. A semi-annual report shall be submitted to the Department containing the following information:
- (a) Detailed description of every instance in which any observed six-minute average opacity was equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;
 - (b) A copy of each report generated during any Method 9 visible emissions observation conducted in accordance with (a) during the reporting period;
 - (c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required;
 - (d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and
 - (e) Signature of the responsible official as required by General Permit Proviso No. 9.

ADEM Admin Code r.
335-3-16-.05(c)

Summary Page for Raw Material Handling & Raw Mill Area 200

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission Limit	Regulation
23-BF-509	Limestone/Clay Hopper	PM	0.0115 gr/acf 0.59 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-522	Belt #s 518 & 585	PM	0.0115 gr/acf 0.79 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-528	Alumina, Silica and Iron Hoppers	PM	0.0115 gr/acf 0.39 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-551	Raw Material Conveyors	PM	0.0115 gr/acf 0.79 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-556	HiCal Hopper	PM	0.0115 gr/acf 0.39 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
223-23-407	LKD/PFA Silos	PM	0.0115 gr/acf 0.59 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-601	LKD Silo Rotary Feeder	PM	0.0115 gr/acf 0.20 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-621	PFA Rotary Feeder	PM	0.0115 gr/acf 0.20 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-667	Belt #585	PM	0.0115 gr/acf 0.59 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-692	Belt #685	PM	0.0115 gr/acf 0.20 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-697	Kiln Dust Bin Airslide & Raw Mill Airslide #685	PM	0.0115 gr/acf 0.69 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-748	Bucket Elevator & Transfer Points	PM	0.0115 gr/acf 0.49 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-752	Kiln Dust Bucket Elevator &	PM	0.0115 gr/acf	ADEM Admin. Code r. 335-3-14-.04

	Airslide		0.49 lb/hr	Anti-PSD
23-BF-757	Kiln Dust Silo	PM	0.0115 gr/acf 0.49 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-787	Blending Silo Airslides & Bucket Elevator	PM	0.0115 gr/acf 0.89 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-802	Blending Silo	PM	0.0115 gr/acf 0.79 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
***	All sources In Area 200 (except LKD Reclaim)	Opacity	10%	40 CFR 63.1345 NESHAP LLL 40 CFR 60.62 Subpart F
***	All sources associated with LKD Reclaim	Opacity	20%	ADEM Admin. Code r. 335-3-4-.01(1)

**Provisos for Raw Material Handling & Raw Mill
Area 200**

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01(1), "Control of Particulate Emissions – Visible Emissions."	ADEM Admin. Code r. 335-3-4-.01(1)
3. These sources are subject to the applicable requirements of 40 CFR 63, Subpart LLL (National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry).	40 CFR 63, Subpart LLL: §63.1340
4. These sources are subject to the applicable requirements of 40 CFR 63, Subpart A: "General Provisions", as listed in Table No. 1 of 40 CFR, Subpart LLL	40 CFR 63, Subpart LLL: §63.1342
5. These sources are subject to the applicable requirements of 40 CFR 60, Subpart F (Standards of Performance for Portland Cements).	40 CFR 60, Subpart F: §60.60
6. This system includes sources with enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]."	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
<u>Emissions Standards</u>	
1. Emissions from each source within Area 200 (except the LKD Reclaim) shall discharge to the atmosphere emissions in excess of 10% opacity.	40 CFR 63, Subpart LLL: §63.1345 40 CFR 60, Subpart F: §60.62
2. There shall be a written operations and maintenance plan for each affected source and air pollution control device.	40 CFR 63, Subpart LLL: §63.1347

Federally Enforceable Provisos

Regulations

- 3. If an affected facility subject to this subpart has different emission limit or requirement for the same pollutant under another regulation in title 40 of this chapter, the owner or operator of the affected facility must comply with the most stringent emission limit or requirement and is exempt for the less stringent requirement.
- 4. The particulate matter emission rate from each controlled source associated with Area 200 shall not exceed 0.0115 gr/acf and the equivalent emission rates as listed below.

40 CFR 63, Subpart LLL: §63.1356

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

Anti-PSD

Source ID	Source Description	Emissions Limit (lb/hr)
23-BF-509	Limestone/Clay Hopper	0.59
23-BF-522	Belt #s 518 & 585	0.79
23-BF-528	Alumina, Silica & Iron Hoppers	0.39
23-BF-551	Raw Material Conveyors	0.79
23-BF-556	HiCal Hopper	0.39
223-23-407	LKD/PFA Silos	0.59
23-BF-601	LKD Silo Rotary Feeder	0.20
23-BF-621	PFA Rotary Feeder	0.20
23-BF-667	Belt #585	0.59

Source ID	Source Description	Emissions Limit (lb/hr)
23-BF-692	Belt #685	0.20
23-BF-697	Kiln Dust Bin Airslide & Raw Mill Airslide #685	0.69
23-BF-748	Bucket Elevator & Transfer Points	0.49
23-BF-752	Kiln Dust Bucket Elevator & Airslide	0.49
23-BF-757	Kiln Dust Silo	0.49
23-BF-787	Blending Silo Airslides & Bucket Elevator	0.89
23-BF-802	Blending Silo	0.79

Federally Enforceable Provisos	Regulations
5. The transfer points, feeders, hoppers and screens associated with the Lime Kiln Dust (LKD) Reclaim Operation shall not discharge to the atmosphere emissions in excess of 20% opacity.	ADEM Admin. Code r. 335-3-4-.01(1)
6. Raw materials, other than those currently listed in the facility's most recent application, may be used in the production of cement if no additional equipment is required for their handling and if no increases in emissions would occur with the use of the new raw materials. If an alternate raw material requires additional handling equipment, the Permittee must obtain prior approval from the Department.	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
<u>Compliance and Performance Test Methods and Procedures</u>	
1. Method 5 of 40 CFR 60, Appendix A, shall be used in the determination of particulate matter emissions.	ADEM Admin. Code r. 335-3-1-.05
2. Method 9 of 40 CFR 60, Appendix A, shall be used in the determination of opacity.	
3. Method 22 of 40 CFR 60, Appendix A, shall be used to determine the presence of fugitive and visible emissions. With the exception of one visual check per month), this method shall be implemented only to determine the presence of fugitive/visible emissions; documentation of sky conditions, wind speed and direction, etc. are not required for the purposes of the visual checks required in this Section.	ADEM Admin. Code r. Rule 335-3-1-.05
4. These sources are subject to the applicable requirements outlined in 40 CFR 60: Subpart F, " <i>Test Methods and Procedures</i> ".	40 CFR 60, Subpart F: §60.675
5. These sources are subject to the applicable requirements outlined in 40 CFR 63: Subpart LLL, " <i>Performance testing requirements</i> ."	40 CFR 63, Subpart LLL: §63.1349
<u>Emissions Monitoring</u>	
1. Visual checks of each source associated with Area 200 shall be made at least once per week by a person familiar with Method 9. At least once per month, the visual check must be performed in accordance with EPA Reference Method 22. If visible emissions are noted from any source, an EPA Reference Method 9 test shall be performed for a minimum of 6 minutes. The Method 9 test shall be performed within 1 hour of the	ADEM Admin. Code r. 335-3-16-.05(c)

Federally Enforceable Provisos**Regulations**

initial observation of visible emissions.

2. If during any Method 9 test, visible emissions are observed to be greater than 5% opacity, corrective action shall be initiated within 2 hours of the observation to eliminate the visible emissions. After the corrective action has been completed, the Permittee shall conduct another visual check to ensure that the visible emissions have been eliminated.
3. If, at any time, a Method 9 test results in visible emissions in excess of 10% opacity, the Department shall be notified within 24 hours of the observation, as stated in General Proviso 15(b).
4. These sources are subject to the applicable requirements outlined in 40 CFR 60: Subpart F, "*Monitoring of Operations*".
5. These sources are subject to the applicable requirements outlined in 40 CFR 63, Subpart LLL: "*Monitoring Requirements*". If visible emissions are observed, corrective action shall be initiated within one (1) hour.

ADEM Admin. Code r.
335-3-16-.05(c)

ADEM Admin. Code r.
335-3-16-.05(c)

40 CFR 60, Subpart F:
§60.63

40 CFR, Subpart LLL:
§63.1350

Recordkeeping and Reporting Requirements

1. Records of all visual checks and corrective actions performed, as well as follow-up visual checks shall be maintained in a form suitable for inspection and kept on site for a period of at least 5 years.
2. Records, which detail the materials (per Item 6 of the Emission Standards section above) and their quantities used, shall be kept on site in a form suitable for inspection.
3. These sources are subject to the applicable requirements outlined in 40 CFR 60, Subpart F: "Recordkeeping and reporting requirements".
4. These sources are subject to the applicable requirements outlined in 40 CFR 63, Subpart LLL: "Reporting requirements".
5. These sources are subject to the applicable requirements outlined in 40 CFR 63, Subpart LLL: "Notification requirements".
6. A semi-annual report shall be submitted to the Department containing the following information:

ADEM Admin. Code r.
335-3-16-.05(c)

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

Anti-PSD

40 CFR, Subpart F:
§60.65

40 CFR, Subpart LLL:
§63.1354

40 CFR, Subpart F:
§60.1353

ADEM Admin. Code r.
335-3-16-.05(c)(3)

Federally Enforceable Provisos**Regulations**

- (a) Detailed description of every instance in which any observed six-minute average opacity was equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;
 - (b) A copy of each report generated during any Method 9 visible emissions observation conducted in accordance with (a) during the reporting period;
 - (c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required;
 - (d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and
 - (e) Signature of the responsible official as required by General Permit Proviso No. 9.
 - (f) Information on any malfunctions that caused an exceedance of a limit under these subparts, including date, time, duration, cause, level of excess emissions, actions to minimize emissions during the malfunction and corrective actions.
 - (g) If an affirmative defense is being sought, a written report meeting the requirements in Subpart LLL.
7. An Annual compliance certification shall be submitted to the Department containing the following information:
- (a) Detailed description of every instance in which any observed six-minute average opacity was equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;
 - (b) A copy of each report generated during any Method 9 visible emissions observation conducted in accordance with (a) during the reporting period;

40 CFR 63, Subpart F:
§60.65

40 CFR 63, Subpart
LLL: §63.1354 and
§63.1344

ADEM Admin. Code r.
335-3-16-.05(c)(3)

Federally Enforceable Provisos

Regulations

- (c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required;
- (d) Other facts the Department may require to determine the compliance status of the source.

**Summary Page for Fuel Processing & Handling
Cement Kiln & Clinker Cooler
Area 300**

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission Limit	Regulation
20-BF-546	Coal/Coke Conveyor Belt	PM	0.0115 gr/acf 0.49 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
25-BF-602	Petcoke Silo	PM	0.0115 gr/acf 0.1 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
25-BF-611	Coal Silo	PM	0.0115 gr/acf 0.1 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
25-BF-638	Coal Mill	PM	0.0115 gr/acf 5.9 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
25-BF-668	Fine Coal Silo	PM	0.0115 gr/acf 0.05 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
25-BF-674	Fine Coal Silo (CO Analyzer)	PM	0.0115 gr/acf 0.003 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
25-BF-697	Fine Petcoke Silo	PM	0.0115 gr/acf 0.05 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
25-BF-703	Fine Petcoke Silo (CO Analyzer)	PM	0.0115 gr/acf 0.003 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
23-BF-705	Kiln (Main Kiln Baghouse)	PM	0.010 gr/acf 31.9 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
25-BF-757	Kiln Feed Bin Airslides	PM	0.0115 gr/acf 0.49 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
25-BF-777	Kiln Feed Elevator	PM	0.0115 gr/acf 0.39 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
25-BF-782	Preheater Elevator & Airslide	PM	0.0115 gr/acf 0.49 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
25-BF-927	Clinker Cooler Discharge Conveyor	PM	0.0115 gr/acf 0.5 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-309	Clinker Silo #1	PM	0.48 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD

EU-310	Clinker Silo #1 Tunnel Belt	PM	0.78 lb/hr	ADEM Admin. Code R. 335-3-14-.04 Anti-PSD
AFS-DC-01	Roll-Off Unloading Shed Granular Line Transfer #1 Granular Line Transfer #2 Granular Storage Bin Debaler	PM	3.4 lb/hr	ADEM Admin. Code R. 335-3-14-.04 Anti-PSD
AFS-DC-02	TS-2 shredder Shredder #1 Shredder #2 Shredding Line Transfer Conveyor Walking Floor Bin			
20-BF-546	Source Descriptions Listed Above	Opacity	20%	40 CFR 60, Subpart Y: §60.254(a)
25-BF-602				
25-BF-611				
25-BF-668				
25-BF-674				
25-BF-697				
25-BF-703				
25-BF-638 25-BF-705	Coal Mill Kiln	Opacity	20%	ADEM Admin Code. r. 335-3-3.01
25-BF-757	Source Descriptions Listed Above	Opacity	10%	40 CFR 63, Subpart LLL: §63.1345 40 CFR 60, Subpart F 60.62(c)
25-BF-777				
25-BF-782				
25-BF-927				
AFS-DC-01				
AFS-DC-02				
25-BF-638 25-BF-705	Coal Mill/Kiln Combined Limit	PM	E = 3.59 (P) ^{0.62}	ADEM Admin. Code r. 335-3-4-.04(1)
25-BF-638 25-BF-705	Coal Mill/Kiln Combined Limit	SO ₂	202.8 T/30 days 1716 TPY	ADEM Admin. Code r. 335-3-14-.04 Non-attainment NSR Avoidance
25-BF-638 25-BF-705	Coal Mill/Kiln Combined Limit	CO	4.0 lb/ton clinker 712.32 lb/hr	ADEM Admin. Code R. 335-3-14-.04 BACT

5-BF-638 25-BF-705	Coal Mill/Kiln Combined Limit	NO _x	221 T/30 days 1,870 TPY	ADEM Admin. Code r. 335-3-14-.04 Non-attainment NSR Avoidance
25-BF-638 25-BF-705	Coal Mill/Kiln Combined Limit	VOC	4.8 T/30 days 41 TPY	ADEM Admin. Code r. 335-3-14-.04 Non-attainment NSR Avoidance
25-BF-638 25-BF-705	Kiln/Cooler Combined Limit	PM	0.07 lb/ton clinker	40 CFR 63, Subpart LLL: §63.1343**
25-BF-638 25-BF-705	Kiln/Cooler Combined Limit	D/F	0.075 ng/dscm or 1.3 ng/dscm (total mass basis)	ADEM Admin. Code r. 335-3-3-.05*
25-BF-638 25-BF-705	Kiln/Cooler Combined Limit	PM	4.60 mg/dscm	ADEM Admin. Code r. 335-3-3-.05*
25-BF-638 25-BF-705	Kiln/Cooler Combined Limit	CO	790 ppmvd	ADEM Admin. Code r. 335-3-3-.05*
25-BF-638 25-BF-705	Kiln/Cooler Combined Limit	HCl	3 ppmvd	ADEM Admin. Code r. 335-3-3-.05*
25-BF-638 25-BF-705	Kiln/Cooler Combined Limit	Cadmium	0.0014 mg/dscm	ADEM Admin. Code r. 335-3-3-.05*
5-BF-638 25-BF-705	Kiln/Cooler Combined Limit	Pb	0.014 mg/dscm	ADEM Admin. Code r. 335-3-3-.05*
25-BF-638 25-BF-705	Kiln/Cooler Combined Limit	Mercury	0.011 mg/dscm	ADEM Admin. Code r. 335-3-3-.05*
25-BF-638 25-BF-705	Kiln/Cooler Combined Limit	NO _x	630 ppmvd	ADEM Admin. Code r. 335-3-3-.05*

* Denotes ADEM Admin Code r. 335-3-3-.05 "Incineration of Commercial and Industrial Solid Waste" will not go into effect until three years after the Department adopts, and EPA approves, rules to implement CISWI or no later than February 7, 2018.

** Denotes Argos must comply with the cooler exhaust PM emission of 0.07 lb/ton of clinker standard by September 9, 2015.

Provisos for Fuel Processing & Handling Cement Kiln & Cooler Area 300

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits."	ADEM Admin Code r. 335-3-16-.03
2. There are sources associated with Area 300 that are subject to 40 CFR 60, Subpart Y (<i>New Source Performance Standards for Coal Preparation Plants</i>).	40 CFR 60, Subpart Y: §60.254(a)
3. There are sources associated with Area 300 that are subject to 40 CFR 63, Subpart LLL (<i>National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry</i>).	40 CFR 63, Subpart LLL: §63.1345
4. There are sources associated with Area 300 that are subject to 40 CFR 60, Subpart F (<i>New Source Performance Standards for Portland Cement Plants</i>).	40 CFR 60, Subpart F: §60.64
5. This system includes sources with enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]."	ADEM Admin Code r. 335-3-14-.04 Anti-PSD
6. This system includes sources with enforceable limit to avoid performing PSD and Nonattainment New Source Reviews in accordance with ADEM Admin. Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]."	ADEM Admin Code r. 335-3-14-.04. Anti-NSR
7. This system includes sources with enforceable limits in place in as a result of a review under ADEM Admin. Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]."	ADEM Admin Code r. 335-3-14-.04. BACT
8. The cooler exhaust, which vents through emission point (EP) 25-BF-705, is subject to 40 CFR 63, Subpart LLL for particulate matter until three years after the Department adoption date of April 1, 2014, and EPA approves, or no later than February 7, 2018, rules to implement ADEM Code. r. 335-3-3-.05 "Incineration of Commercial and Solid Waste (CISWI)."	40 CFR 63, Subpart LLL: §63.1345
9. Three years after the Department adoption date of April 1, 2014, and EPA approves, or no later than February 7, 2018, rules to implement ADEM Code. r. 335-3-3-.05 "Incineration of Commercial and Solid Waste (CISWI)," the combined kiln and cooler exhaust and in-line coal mill exhaust will be subject to the applicable requirements of this rule.	ADEM Admin Code r. 335-3-3.05
<u>Emissions Standards</u>	
1. No source associated with the Fuel Processing and Handling systems shall discharge to the atmosphere gases in excess of 20% opacity.	40 CFR 60, Subpart Y: §60.254(a)

Federally Enforceable Provisos

Regulations

- 2. The Permittee shall not cause to be discharged to the atmosphere visible emissions from sources subject to 40 CFR 63, Subpart LLL and 40 CFR 60, Subpart F §60.62 (other than the main kiln stack and the coal mill stack) in excess of 10% opacity.
- 3. The Permittee shall not cause to be discharged to the atmosphere particulate matter emissions from the following sources in excess of the listed emission rates:

40 CFR 63, Subpart LLL: §63.1345(a) & 40 CFR 60, Subpart F §60.62

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

Anti-PSD

Source ID	Source Description	Emission Rate	
		(gr/acf)	(lb/hr)
20-BF-546	Coal/Coke Conveyor Belt	0.0115	0.49
25-BF-602	Petcoke Silo	0.0115	0.1
25-BF-611	Coal Silo	0.0115	0.1
25-BF-638	Coal Mill	0.0115	5.9
25-BF-668	Fine Coal Silo	0.0115	0.05
25-BF-674	Fine Coal Silo (CO Analyzer)	0.0115	0.003
25-BF-697	Fine Petcoke Silo	0.0115	0.05
25-BF-703	Fine Petcoke Silo (CO Analyzer)	0.0115	0.003
AFS-DC-01	Roll-Off Unloading Shed Granular Line Transfer #1 Granular Line Transfer #2 Granular Storage Bin	N/A	3.4
AFS-DC-02	Debaler Shredder #1 Shredder #2 Shredding Line Transfer Conveyor Walking Floor Bin		
25-BF-705	Kiln (Main Kiln Baghouse)	0.010	31.9
25-BF-757	Kiln Feed Bin Airslides	0.0115	0.49
25-BF-777	Kiln Feed Elevator	0.0115	0.39
25-BF-782	Preheater Elevator & Airslide	0.0115	0.49
25-BF-927	Clinker Cooler Discharge Conveyor	0.0115	0.5

Federally Enforceable Provisos	Regulations
4. The Permittee shall not cause to be discharged to the atmosphere particulate matter emissions from clinker silo #1 in excess of 0.48 lb/hr.	ADEM Admin Code r. 335-3-14-.04 Anti-PSD
5. The Permittee shall not cause to be discharged to the atmosphere particulate matter emissions from the clinker silo #1 tunnel belt in excess of 0.78 lb/hr.	ADEM Admin Code r. 335-3-14-.04 Anti-PSD
6. The combined SO ₂ emission rate from the main kiln baghouse and the coal mill dust collector shall not exceed 202.8 tons in any consecutive 30-day period, and 1,716 tons in any consecutive 12 months, as determined by the CEMS.	ADEM Admin Code r. 335-3-14-.04 Anti-NSR
7. The combined SO ₂ emission rate from the main kiln baghouse and the coal mill dust collector shall not exceed 2.2 lb/ton of clinker produced in any consecutive 30 day period, as determined by CEMS.	Consent Decree No. 3:10cv-44-JPG-CAP
8. The combined CO emission rate from the main kiln baghouse and the coal mill dust collector shall not exceed 4.0 lb/ton of clinker produced and 712.32 lb/hr, as measured in accordance with EPA Reference Method 10.	ADEM Admin Code r. 335-3-14-.04 BACT
9. The combined NO _x emission rate from the main kiln baghouse and the coal mill dust collector shall not exceed 221 tons in any consecutive 30-day period, and 1,870 tons in any consecutive 12 months, as determined by the CEMS.	ADEM Admin Code r. 335-3-14-.04 Anti-NSR
10. The combined NO _x emissions rate from the main kiln baghouse and the coal mill dust collector shall not exceed 2.4 lb/ton of clinker produced in any consecutive 30 day period, as determined by CEMS.	Consent Decree No. 3:10-cv-44-JPG-CAP
11. The combined VOC emission rate from the main kiln baghouse and the coal mill dust collector shall not exceed 4.8 tons in any consecutive 30-day period, and 41 tons in any consecutive 12 months.	ADEM Admin Code r. 335-3-14-.04 Anti-NSR
12. The amount of dry kiln feed utilized in the kiln shall not exceed 3,088,800 tons in any consecutive 12-month period.	ADEM Admin Code r. 335-3-14-.04 Anti-PSD
13. If an affected facility subject to the subpart has a different emission limit or requirement for the same pollutant under another regulation in title 40 of this chapter, the owner or operator of the affected facility must comply with the most stringent emission limit or requirement and is exempt from the less stringent requirement.	40 CFR 63, Subpart LLL: §63.1356

Federally Enforceable Provisos**Regulations**

- | Federally Enforceable Provisos | Regulations |
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| 14. Non-regulated materials/fuels (defined as Non-Hazardous Wastes per 40 CFR 262.11) are permitted for use as Rotary Kiln fuels if no additional handling equipment is required for their handling and the sulfur and nitrogen contents of the fuels are not higher than that of the coal used by the facility. If a non-regulated material requires additional handling equipment, the facility shall obtain approval from the Department prior to utilization of that fuel. The use of any other substances as fuel is prohibited without prior written approval from the Department. | ADEM Admin Code r. 335-3-14-.04

Anti PSD |
| 15. The cooler exhaust, shall not discharge into the atmosphere particulate emissions in excess of 0.07 lb/ton clinker (30 day rolling average) by September 9, 2015. | 40 CFR 63, Subpart LLL: §63.1343 |
| 16. Three years after the Department adoption date of April 1, 2014, and EPA approves, or no later than February 7, 2018, rules to implement ADEM Code. r. 335-3-3-.05 " <i>Incineration of Commercial and Solid Waste (CISWI)</i> ," the combined kiln and cooler exhaust and in-line coal mill exhaust will be subject to the following applicable emission standards of this rule. | ADEM Admin Code r. 335-3-3-.05 |
| (a) The combined Cement Kiln & Cooler (25-BF-705) shall not discharge to the atmosphere PM emissions in excess of 4.60 mg/dscm. | |
| (b) The combined Cement Kiln & Cooler (25-BF-705) shall not discharge to the atmosphere carbon monoxide emissions in excess of 790 ppmvd. | |
| (c) The combined Cement Kiln & Cooler (25-BF-705) shall not discharge to the atmosphere hydrogen chloride emissions in excess of 3 ppmvd. | |
| (d) The combined Cement Kiln & Cooler (25-BF-705) shall not discharge to the atmosphere sulfur dioxide in excess of 600 ppmvd. | |
| (e) The combined Cement Kiln & Cooler (25-BF-705) shall not discharge to the atmosphere cadmium in excess of 0.0014 mg/dscm. | |
| (f) The combined Cement Kiln & Cooler (25-BF-705) shall not discharge to the atmosphere lead emissions in excess of 0.014 mg/dscm. | |
| (g) The combined Cement Kiln & Cooler (25-BF-705) shall not discharge to the atmosphere dioxins/furans emissions in excess of 1.3 ng/dscm (total mass basis) or 0.075 ng/dscm. | |
| (h) The combined Cement Kiln & Cooler (25-BF-705) shall not discharge to the atmosphere nitrogen oxides in excess of 630 ppmvd. | |

Federally Enforceable Provisos

Regulations

(i) The combined Cement Kiln & Cooler (25-Bf-705) shall not discharge to the atmosphere mercury emissions in excess of 0.011 mg/dscm.

Compliance and Performance Test Methods and Procedures

1. Method 5 of 40 CFR 60, Appendix A, shall be used in the determination of particulate matter emissions.	ADEM Admin Code r. 335-3-1-.05
2. Method 6 of 40 CFR 60, Appendix A, may be used in the determination of sulfur dioxide emissions.	ADEM Admin Code r. 335-3-1-.05
3. Method 7 or 7E of 40 CFR 60, Appendix A, may be used in the determination of nitrogen oxide emissions.	ADEM Admin Code r. 335-3-1-.05
4. Method 10 of 40 CFR 60, Appendix A, shall be used in the determination of carbon monoxide emissions.	ADEM Admin Code r. 335-3-1-.05
5. Method 25A and direct interface Method 18 testing may be used in the determination of Volatile Organic Compound emissions.	ADEM Admin Code r. 335-3-1-.05
6. Method 9 of 40 CFR 60, Appendix A, shall be used in the determination of opacity from emission points other than the main kiln stack and the coal mill dust collector.	ADEM Admin Code r. 335-3-1-.05
7. Method 23 of 40 CFR 60, Appendix A, shall be used in the determination of D/F emissions.	ADEM Admin Code r. 335-3-1-.05
8. The percent methane and VOC content emissions of that which was measured during the most recent stack test shall be used as a parametric indicator of THC emissions during the next 12-month period.	ADEM Admin Code r. 335-3-1-.05
9. Continuous Emissions Monitoring Systems [CEMS] shall be used in the determination of THC emissions from the main kiln baghouse and the coal mill dust collector as a parametric indicator of VOC emissions.	ADEM Admin Code r. 335-3-14-.04 Anti-PSD/Non-attainment NSR Avoidance
10. Continuous Emissions Monitoring Systems (CEMS) shall be used in the determination of NO _x , and SO ₂ emissions.	ADEM Admin Code r. 335-3-14-.04 Anti-PSD/Non-attainment NSR Avoidance
11. The cooler exhaust PM emissions are subject to the applicable requirements outlined in 40 CFR 63, Subpart LLL: "Performance testing requirements".	40 CFR 63 Subpart LLL: §63.1349
12. These sources (other than the coal mill stack) are subject to the applicable requirements outlined in 40 CFR 63, Subpart LLL: "Performance testing requirements".	40 CFR 63, Subpart LLL: §63.1349

Federally Enforceable Provisos	Regulations
13. These sources (other than the main kiln stack and the coal mill stack) are subject to the applicable requirements outlined in 40 CFR 60, Subpart F: <i>“Test Methods and Procedures”</i> .	40 CFR 60, Subpart F: §60.64
14. The Fuel Processing and Handling systems are subject to the applicable requirements outlined in 40 CFR 60, Subpart Y, <i>“Performance tests and other compliance requirements”</i> .	40 CFR 60, Subpart Y: §60.255
15. The Fuel Processing and Handling systems are subject to the applicable requirements outlined in 40 CFR 60, Subpart Y, <i>“Test methods and procedures”</i> .	40 CFR 60, Subpart Y: §60.257
16. The combined kiln and cooler exhaust is subject to applicable performance test outlined in ADEM Admin. Code r. 335-3-3.05(7)*.	ADEM Admin Code r. 335-3-3-.05(7)*
17. The combined kiln and cooler exhaust is subject to applicable initial compliance demonstrations outlined in ADEM Admin. Code r. 335-3-3.05(8)*.	ADEM Admin Code r. 335-3-3-.05(8)*
18. Continuous compliance with applicable emissions standards associated with the combined kiln and cooler exhaust shall be demonstrated in accordance with ADEM Admin. Code r. 335-3-3.05(9)*.	ADEM Admin Code r. 335-3-3-.05(9)*
<u>Emissions Monitoring</u>	
1. The Permittee shall maintain, calibrate and operate continuous opacity monitoring systems (COMS) to measure opacity from the exhausts of the kiln and coal mill. The COMS shall meet the specifications and procedures of Appendix B of 40 CFR Part 60 and will be certified and maintained in accordance with these procedures.	ADEM Admin Code r. 335-3-16-.05(c)
2. The Permittee shall maintain, calibrate and operate continuous monitoring systems (CEMS) to measure NO _x , and SO ₂ emissions from the main kiln baghouse and the coal mill dust collector. All CEMS shall meet the specifications and procedures of Appendix B of 40 CFR Part 60 and will be certified and maintained in accordance with these procedures. Continued quality assurance shall be demonstrated with the procedures set forth in Appendix F of 40 CFR Part 60.	ADEM Admin Code r. 335-3-14-.04 Anti-PSD
3. The Permittee shall conduct a VOC emissions test for the main kiln baghouse annually, at intervals not to exceed 12 months.	ADEM Admin Code r. 335-3-14-.04 Anti-PSD
4. The Permittee shall maintain, calibrate and operate continuous monitoring systems (CEMS) to measure THC emissions from the main kiln baghouse and the coal mill dust collector as a parametric indicator of VOC emissions. All CEMS shall meet the specifications	ADEM Admin Code r. 335-3-14-.04 Anti-PSD

Federally Enforceable Provisos	Regulations
<p>and procedures of Appendix B of 40 CFR Part 60 and will be certified and maintained in accordance with these procedures. Continued quality assurance shall be demonstrated with the procedures set forth in Appendix F of 40 CFR Part 60.</p>	
<p>5. Visual checks of each source associated with Area 300 (except the main kiln baghouse stack and the coal mill dust collector stack) shall be made at least once per week by a person familiar with Method 9. At least once per month, the visual check must be performed in accordance with EPA Reference Method 22. If visible emissions are noted from any source, an EPA Reference Method 9 test shall be performed for a minimum of 6 minutes. The Method 9 Test shall be performed within 1 hour of the initial observation of visible emissions.</p> <p>(a) If during any Method 9 test, visible emissions are observed to be greater than 5% opacity, corrective action shall be initiated within 2 hours of the observation to eliminate the emissions. After the corrective action has been completed, the Permittee shall conduct another visual check to ensure that the visible emissions have been eliminated.</p> <p>(b) If, at any time, a Method 9 test results in visible emissions in excess of the applicable opacity standard, the Department shall be notified within 24 hours of the observation, as stated in General Proviso 15(b).</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)</p>
<p>6. Particulate matter emissions tests are to be conducted for the kiln and the coal mill at intervals not exceeding 12 months until three years after the Department adoption date of April 1, 2014 and EPA approves, or no later than February 7, 2018, rules to implement ADEM Code r. 335-3-3-.05 "CISWP".</p>	<p>ADEM Admin Code r. 335-3-14-.04</p>
<p>7. Should the visible emissions from the stack associated with this source exceed a 6-minute average of 15% opacity, as determined by the COMS, corrective action, if necessary, shall be initiated within 2 hours to reduce the visible emissions.</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)</p>
<p>8. These sources (other than the coal mill stack) are subject to the applicable requirements outlined in 40 CFR 63, Subpart LLL: "Monitoring Requirements". If visible emissions are observed, corrective action shall be initiated within one (1) hour.</p>	<p>40 CFR, Subpart LLL: §63.1350</p>
<p>9. The cooler exhaust PM emissions are subject to the applicable requirement outlined in 40 CFR 63, Subpart LLL: Monitoring Requirments".</p>	<p>40 CFR, Subpart LLL: §63.1350</p>

Federally Enforceable Provisos	Regulations
10. The Coal Processing and Handling Systems (except the in-line coal mill) are subject to the applicable requirements outlined in 40 CFR 60, Subpart Y: " <i>Performance tests and other compliance requirements</i> ".	40 CFR, Subpart Y: §60.255
11. Three years after the Department adoption date of April 1, 2014, and EPA approves, or no later than February 7, 2018, rules to implement ADEM Code. r. 335-3-3-.05 " <i>Incineration of Commercial and Solid Waste (CISWI)</i> ," the combined kiln and cooler exhaust will be subject to the following applicable monitoring standards of this rule.	ADEM Admin Code r. 335-3-3.05(10)
a) If a fabric filter is used to comply with the requirements of this rule, the owner or operator shall install, calibrate, maintain, and continuously operate a bag leak detection system as specified in subparagraphs (b)1. through 8. of this rule.	ADEM Admin Code r. 335-3-.05(10)(b)(1-8)
(i) The owner or operator shall install and operate a bag leak detection system for each exhaust stack of the fabric filter.	
(ii) Each bag leak detection system shall be installed, operated, calibrated, and maintained in a manner consistent with the manufacturer's written specifications and recommendations.	
(iii) The bag leak detection system shall be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 10 milligrams per actual cubic meter or less.	
(iv) The bag leak detection system sensor shall provide output of relative or absolute particulate matter loadings.	
(v) The bag leak detection system shall be equipped with a device to continuously record the output signal from the sensor.	

Federally Enforceable Provisos**Regulations**

- (vi) The bag leak detection system shall be equipped with an alarm system that will alert automatically an operator when an increase in relative particulate matter emissions over a preset level is detected. The alarm shall be located where it is observed easily by plant operating personnel.
- (vii) For positive pressure fabric filter systems, a bag leak detection system shall be installed in each baghouse compartment or cell. For negative pressure or induced air fabric filters, the bag leak detector shall be installed downstream of the fabric filter.
- (viii) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.
- b) If a device other than a wet scrubber, activated carbon, selective non-catalytic reduction, an electrostatic precipitator, or a dry scrubber is used to comply with the emission limitations under ADEM Admin Code r. 335-3-.05(6)(a), the owner or operator shall install, calibrate (to the manufacturers' specifications), maintain, and operate the equipment necessary to monitor compliance with the site-specific operating limits established using the procedures in ADEM Admin Code r. 335-3-.05(6)(c). ADEM Admin Code r. 335-3-.05(10)(c)
- c) For waste-burning kilns not equipped with a wet scrubber or dry scrubber, in place of hydrogen chloride testing with EPA Method 321 at 40 CFR part 63, appendix A, an owner or operator shall install, calibrate, maintain, and operate a CEMS for monitoring hydrogen chloride emissions discharged to the atmosphere and record the output of the system. To demonstrate continuous compliance with the hydrogen chloride emissions limit for units other than waste-burning kilns not equipped with a wet scrubber or dry scrubber, a facility may substitute use of a hydrogen chloride CEMS for conducting the hydrogen chloride annual performance test, monitoring the minimum hydrogen chloride sorbent flow rate, monitoring the minimum scrubber liquor pH. ADEM Admin Code r. 335-3-.05(10)(g)

Federally Enforceable Provisos**Regulations**

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| d) To demonstrate continuous compliance with the particulate matter emissions limit, a facility may substitute use of a particulate matter CEMS for conducting the particulate matter annual performance test and other CMS monitoring for PM compliance (e.g., bag leak detectors, ESP secondary power, PM scrubber pressure). | ADEM Admin Code r. 335-3-.05(10)(h) |
| e) To demonstrate continuous compliance with the dioxin/furan emissions limit, a facility may substitute use of a continuous automated sampling system for the dioxin/furan annual performance test. The owner or operator shall record the output of the system and analyze the sample according to EPA Method 23 at 40 CFR part 60, appendix A-7. This option to use a continuous automated sampling system takes effect on the date a final performance specification applicable to dioxin/furan from continuous monitors is published in the Federal Register. The owner or operator who elects to continuously sample dioxin/furan emissions instead of sampling and testing using EPA Method 23 at 40 CFR part 60, appendix A-7 shall install, calibrate, maintain and operate a continuous automated sampling system and shall comply with the requirements specified in § 60.58b(p) and (q). A facility may substitute continuous dioxin/furan monitoring for the minimum sorbent flow rate, if activated carbon sorbent injection is used solely for compliance with the dioxin/furan emission limit. | ADEM Admin Code r. 335-3-.05(10)(h) |
| f) To demonstrate continuous compliance with the mercury emissions limit, a facility may substitute use of a continuous automated sampling system for the mercury annual performance test. The owner or operator shall record the output of the system and analyze the sample at set intervals using any suitable determinative technique that can meet performance specification 12B criteria. This option to use a continuous automated sampling system takes effect on the date a final performance specification applicable to mercury from monitors is published in the Federal Register. The owner or operator who elects to continuously sample mercury emissions instead of sampling and testing using EPA Method 29 or 30B at 40 CFR part 60, appendix A-8, ASTM D6784-02 (Reapproved 2008) (incorporated by reference, see § 60.17), or an approved alternative method for measuring mercury emissions, shall install, calibrate, maintain and operate a continuous automated sampling system and shall comply with the requirements specified in § 60.58b(p) and (q). A facility may 335-3-3-.053-77 substitute continuous mercury monitoring for the minimum sorbent flow rate, if activated carbon sorbent injection is used solely for compliance with the mercury emission limit. | ADEM Admin Code r. 335-3-.05(10)(j) |

Federally Enforceable Provisos

Regulations

g) To demonstrate continuous compliance with the nitrogen oxides emissions limit, a facility may substitute use of a CEMS for the nitrogen oxides annual performance test to demonstrate compliance with the nitrogen oxides emissions limits.

ADEM Admin Code r.
335-3-.05(10)(k)

1. Install, calibrate, maintain and operate a CEMS for measuring nitrogen oxides emissions discharged to the atmosphere and record the output of the system. The requirements under performance specification 2 of appendix B of 40 CFR part 60, the quality assurance procedure 1 of appendix F of 40 CFR part 60 and the procedures under § 60.13 shall be followed for installation, evaluation and operation of the CEMS.

2. Following the date that the initial performance test for nitrogen oxides is completed or is required to be completed under paragraph (7) of this rule, compliance with the emission limit for nitrogen oxides required under § 60.52b(d) shall be determined based on the 30-day rolling average of the hourly emission concentrations using CEMS outlet data. The 1-hour arithmetic averages shall be expressed in parts per million by volume corrected to 7 percent oxygen (dry basis) and used to calculate the 30-day rolling average concentrations. CEMS data during startup and shutdown, as defined in this rule, are not corrected to 7 percent oxygen, and are measured at stack oxygen content. The 1-hour arithmetic averages shall be calculated using the data points required under § 60.13(e)(2).

h) To demonstrate continuous compliance with the sulfur dioxide emissions limit, a facility may substitute use of a continuous automated sampling system for the sulfur dioxide annual performance test to demonstrate compliance with the sulfur dioxide emissions limits.

1. Install, calibrate, maintain and operate a CEMS for measuring sulfur dioxide emissions discharged to the atmosphere and record the output of the system. The requirements under performance specification 2 of appendix B of 40 CFR part 60, the quality assurance requirements of procedure 1 of appendix F of 40 CFR part 60 and the procedures under § 60.13 must be followed for installation, evaluation and operation of the CEMS.

2. Following the date that the initial performance test for sulfur dioxide is completed or is required to be completed under paragraph (7) of this rule, compliance with the sulfur dioxide emission limit may be determined based on the 30-day rolling average of the hourly arithmetic average emission concentrations using CEMS outlet data. The 1-hour arithmetic averages shall be expressed in parts per million corrected to 7 percent oxygen (dry basis) and used to calculate the 30-day rolling average emission concentrations. CEMS data during startup and shutdown, as defined in this rule, are not corrected to 7 percent oxygen, and are measured at stack oxygen content. The 1-hour arithmetic averages shall be calculated using the data points required under §60.13(e)(2).

i) To demonstrate continuous compliance with the carbon monoxide emissions limit, a facility may substitute use of a continuous automated sampling system for the carbon monoxide annual performance test to demonstrate compliance with the carbon monoxide emissions limits.

ADEM Admin Code r.
335-3-.05(10)(o)

1. Install, calibrate, maintain, and operate a CEMS for measuring carbon monoxide emissions discharged to the atmosphere and record the output of the system. The requirements under performance specification 4B of appendix B of 40 CFR part 60, the quality assurance procedure 1 of appendix F of 40 CFR part 60 and the procedures under §60.13 shall be followed for installation, evaluation, and operation of the CEMS

2. Following the date that the initial performance test for carbon monoxide is completed or is required to be completed under paragraph (7) of this rule, compliance with the carbon monoxide emission limit may be determined based on the 30-day rolling average of the hourly arithmetic average emission concentrations, including CEMS data during startup and shutdown as defined in this rule, using CEMS outlet data. Except for CEMS data during startup and shutdown, as defined in this rule, the 1-hour arithmetic averages shall be expressed in parts per million corrected to 7 percent oxygen (dry basis) and used to calculate the 30-day rolling average emission concentrations. CEMS data collected during startup or shutdown, as defined in this rule, are not corrected to 7 percent oxygen, and are measured at stack oxygen content. The 1-hour arithmetic averages shall be calculated using the data points required under §60.13(e)(2).

Federally Enforceable Provisos**Regulations**

- j) For energy recovery units with annual average heat input rates greater than or equal to 250 MMBtu/hour and waste-burning kilns, the owner or operator shall install, calibrate, maintain, and operate a PM CPMS and record the output of the system as specified in subparagraphs (10)(r)1. through 8. of this paragraph below. For other energy recovery units, the owner or operator may elect to use PM CPMS operated in accordance with this paragraph. PM CPMS are suitable in lieu of using other CMS for monitoring PM compliance (e.g., bag leak detectors, ESP secondary power, PM scrubber pressure).
1. Install, calibrate, operate, and maintain the PM CPMS according to the procedures in the approved site-specific monitoring plan developed in accordance with paragraph (9)(l) and subparagraphs (10)(r)1.(i) through (iii) of this rule.
 - (i) The operating principle of the PM CPMS shall be based on in-stack or extractive light scatter, light scintillation, beta attenuation, or mass accumulation of the exhaust gas or representative sample. The reportable measurement output from the PM CPMS shall be expressed as milliamps.
 - (ii) The PM CPMS shall have a cycle time (i.e., period required to complete sampling, measurement, and reporting for each measurement) no longer than 60 minutes.
 - (iii) The PM CPMS shall be capable of detecting and responding to particulate matter concentrations of no greater than 0.5 mg/actual cubic meter.
 2. During the initial performance test or any such subsequent performance test that demonstrates compliance with the PM limit, the owner or operator shall adjust the site-specific operating limit in accordance with the results of the performance test according to the procedures specified in subparagraph (6)(b) of this rule.
 3. Collect PM CPMS hourly average output data for all energy recovery unit or waste-burning kiln operating hours. Express the PM CPMS output as milliamps.

ADEM Admin Code r.
335-3-.05(10)(r)(1-8)

Federally Enforceable Provisos**Regulations**

4. Calculate the arithmetic 30-day rolling average of all of the hourly average PM CPMS output collected during all energy recovery unit or waste-burning kiln operating hours data (milliamps).
5. The owner or operator shall collect data using the PM CPMS at all times the energy recovery unit or waste-burning kiln is operating and at the intervals specified in subparagraph (10)(r)1.(ii) of this paragraph, except for system malfunctions, required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments), and any scheduled maintenance as defined in the site-specific monitoring plan.
6. The owner or operator shall use all the data collected during all energy recovery unit or waste-burning kiln operating hours in assessing the compliance with the operating limit except:
 - (i) Any data collected during monitoring system malfunctions, repairs associated with monitoring system malfunctions, or required monitoring system quality assurance or quality control activities conducted during monitoring system malfunctions are not used in calculations (report any such periods in the annual deviation report);
 - (ii) Any data collected during periods when the monitoring system is out of control as specified in the site-specific monitoring plan, repairs associated with periods when the monitoring system is out of control, or required monitoring system quality assurance or quality control activities conducted out-of-control periods are not used in calculations (report emissions or operating levels and report any such periods in the annual deviation report);
 - (iii) Any PM CPMS data recorded during periods of CEMS data during startup and shutdown, as defined in this rule.

Federally Enforceable Provisos**Regulations**

7. The owner or operator shall record and make available upon request of PM CPMS system performance audits, as well as the dates and duration of periods from when the PM CPMS is out of control until completion of the corrective actions necessary to return the PM CPMS to operation consistent with the site specific monitoring plan.
8. For any deviation of the 30-day rolling average PM CPMS average value from the established operating parameter limit, the owner or operator shall:
 - (i) Within 48 hours of the deviation, visually inspect the air pollution control device;
 - (ii) If inspection of the air pollution control device identifies the cause of the deviation, take corrective action as soon as possible and return the PM CPMS measurement to within the established value; and
 - (iii) Within 30 days of the deviation or at the time of the annual compliance test, whichever comes first, conduct a PM emissions compliance test to determine compliance with the PM emissions limit and to verify. Within 335-3-3-.053-83 45 days of the deviation, the owner or operator shall re-establish the CPMS operating limit. It is not required to conduct additional testing for any deviations that occur between the time of the original deviation and the PM emissions compliance test required under this subparagraph.
 - (iv) CPMS deviations leading to more than four required performance test in a 12-month process operating period (rolling monthly) constitute a violation of this rule.
- k) The minimum amount of monitoring data obtained is determined as follows:
 1. For each continuous monitoring system required or optionally allowed under paragraph (10) of this rule, the owner or operator shall monitor and collect data according to subparagraphs (10)(t)1.(i) through (iii) below:

ADEM Admin Code r.
335-3-.05(10)(t)(1)(i-iii)

Federally Enforceable Provisos

Regulations

- (i) The owner or operator shall operate the monitoring system and collect data at all required intervals at all times compliance is required except for periods of monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods (as specified in subparagraph (11)(cc)15. of this rule), and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks and required zero and span adjustments. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system
to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The owner or operator is required to effect monitoring system repairs in response to monitoring system malfunctions or out of-control periods and to return the monitoring system to operation as expeditiously as practicable.
- (ii) The owner or operator may not use data recorded during the monitoring system malfunctions, repairs associated with monitoring system malfunctions or out-of control periods, or required monitoring system quality assurance or control activities in calculations used to report emissions or operating levels. The owner or operator shall use all the data collected during all periods in assessing the operation of the control device and associated control system.
- (iii) Except for periods of monitoring system malfunction or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks and required zero and span adjustments, failure to collect required data is a deviation of the monitoring requirements.

Recordkeeping and Reporting Requirements

- 1. Records of all visual checks and corrective actions taken, as well as Method 9 test results and follow-up visual checks shall be maintained in a form suitable for inspection and kept on site for a period of at least 5 years.
- 2. A written report of emissions exhibiting excess opacity from the kiln and coal mill, as defined below, shall be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports will include the following information:

ADEM Admin Code r. 335-3-16-.05(c)

ADEM Admin Code r. 335-3-16-.05(c)

Federally Enforceable Provisos

Regulations

<p>(a) The magnitude of excess emissions over 20% computed from six-minute averages (data recorded during period of opacity monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages).</p> <p>(b) The date and time of commencement and completion of each time period of excess emissions.</p> <p>(c) The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted.</p> <p>(d) The date and time identifying each period during which the opacity monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments.</p> <p>(e) When no excess emissions have occurred and the opacity monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report.</p>	
<p>3. Should the net opacity exceedances from the main kiln stack and coal mill stack associated with this source exceed 5% of total operating time, as determined by the COMS, during any semi-annual period, the Department may require additional particulate emissions testing to be performed prior to the end of the next calendar quarter.</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)</p>
<p>4. All the original data charts, performance evaluations, calibration checks, adjustment and maintenance records and other information regarding the COMS and CEMS will be maintained in a permanent form suitable for inspection.</p>	<p>ADEM Admin Code r 335-3-16-.05(c)</p>
<p>5. The Permittee shall maintain a Departmentally approved CEMS data substitution plan, which adequately accounts for emissions during periods of monitor downtime. The Permittee shall adhere to this plan, and any subsequent changes to the plan shall be approved by the Department prior to implementation.</p>	<p>ADEM Admin Code r. 335-3-14-.04 Anti-PSD</p>
<p>6. A written report of excess SO₂, VOC and NO_x emissions, as defined below, shall be submitted to the Department for each calendar quarter within the month following the end of the reported quarter. The reports shall contain the following information:</p> <p>(a) SO₂: The magnitude of excess emissions from the main kiln baghouse (23-BF-705) and the coal mill dust collector (25-BF-638) over 202.8 tons (30-day rolling average) and 1716 tons (12-month average). *</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)</p>

Federally Enforceable Provisos

Regulations

<p>(b) VOCs: The magnitude of excess emissions from the main kiln baghouse (23-BF-705) and the coal mill dust collector (25-BF-638) over 4.8 tons (30-day rolling average) and 41 tons (12-month average).</p> <p>(c) NO_x: The magnitude of excess emissions from the main kiln baghouse (23-BF-705) and the coal mill dust collector (25-BF-638) over 221 tons (30-day rolling average) and 1870 tons (12-month average). *</p> <p style="text-align: center;"><i>*Data recorded during periods of monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages.</i></p> <p>(d) The date and time of the commencement and completion of each time period of excess emissions.</p> <p>(e) The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted.</p> <p>(f) The date and time identifying each period during which the monitoring system(s) was inoperative (except for zero and span checks) and the nature of repairs and/or adjustments.</p> <p>(g) When no excess emissions have occurred and the monitoring system(s) was not inoperative or did not require repair or adjustment, such information shall be stated in the report.</p>	
<p>7. Records shall be kept on site in a form suitable for inspection that show each non-regulated substance (per Item 14 of the Emissions Standards section listed above) used as a fuel is not a hazardous waste.</p>	<p>ADEM Admin Code r. 335-3-14-.04 Anti-PSD</p>
<p>8. These sources (other than the main kiln stack and the cooler stack) are subject to the applicable requirements outlined in 40 CFR 60, Subpart F: "Recordkeeping and reporting requirements".</p>	<p>40 CFR 60, Subpart F: §60.65</p>
<p>9. These sources (other than the main kiln stack and the coal mill stack) are subject to the applicable requirements outlined in 40 CFR 63, Subpart LLL: "Recordkeeping requirements", "Reporting requirements", and "Notification requirements".</p>	<p>40 CFR 63, Subpart LLL: §63.1353, §63.1354, and §63.1355</p>
<p>10. The cooler exhaust PM emissions are subject to the applicable requirements outlined in 40 CFR 63, Subpart LLL: "Recordkeeping requirements", "Reporting requirements", and "Notification requirements".</p>	<p>40 CFR 63, Subpart LLL: §63.1353, §63.1354, and §63.1355</p>

Federally Enforceable Provisos	Regulations
11. The Coal Processing and Handling systems are subject to the applicable requirements outlined in 40 CFR 60, Subpart Y: <i>“Reporting and recordkeeping”</i> .	40 CFR 60 Subpart Y: §60.258
12. A semi-annual report shall be submitted to the Department containing the following information: <ul style="list-style-type: none"> <li data-bbox="188 506 1070 667">(a) Detailed description of every instance in which any observed six-minute average opacity was equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated; <li data-bbox="188 716 1070 812">(b) A copy of each report generated during any Method 9 visible emissions observation conducted in accordance with (a) during the reporting period; <li data-bbox="188 861 1070 957">(c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required; <li data-bbox="188 1005 1070 1102">(d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and <li data-bbox="188 1150 1070 1213">(e) Signature of the responsible official as required by General Permit Proviso No. 9. <li data-bbox="188 1262 1070 1423">(f) Information on any malfunctions that caused an exceedance of a limit under these subparts, including date, time, duration, cause, level of excess emissions, actions to minimize emissions during the malfunction and corrective actions. <li data-bbox="188 1472 1070 1528">(g) If an affirmative defense is being sought, a written report meeting the requirements in Subpart LLL. 	ADEM Admin. Code r. 335-3-16-.05(c)(3)

Federally Enforceable Provisos**Regulations**

12. An Annual compliance certification shall be submitted to the Department containing the following information.

- (a) Detailed description of every instance in which any observed six-minute average opacity was equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;
- (b) A copy of each report generated during any Method 9 visible emissions observation conducted in accordance with (a) during the reporting period;
- (c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required;
- (d) Other facts the Department may require to determine the compliance status of the source.

13. Three years after the Department adoption date of April 1, 2014, and EPA approves, or no later than February 7, 2018, rules to implement ADEM Code r. 335-3-3-.05 "Incineration of Commercial and Solid Waste (CISWI)," the combined kiln and cooler exhaust will be subject to the following applicable recordkeeping and reporting requirements.

ADEM Admin Code r.
335-3-.05(11)

14. Recordkeeping and Reporting. The following items shall be maintained (as applicable) as specified in subparagraphs (a), (b), and (e) through (w) of this paragraph for a period of at least 5 years:

- a) Calendar date of each record.
- b) Records of the data described in subparagraphs (b)1. through 6. of this paragraph:
- c) If a fabric filter is used to comply with the emission limitations, the owner or operator shall record the date, time, and duration of each alarm and the time corrective action was initiated and completed, and a brief description of the cause of the alarm and the corrective action taken. The owner or operator shall also record the percent of operating time during each 6-month period that the alarm sounds, calculated as specified in subparagraph (6)(b)3. of this rule.

ADEM Admin Code r.
335-3-.05(11)(a)(b)

Federally Enforceable Provisos	Regulations
d) Identification of calendar dates and times for which data show a deviation from the operating limits in Table 2 of this rule or a deviation from other operating limits established under subparagraph (6)(b)4. through 7. or (6)(c) of this rule with a description of the deviations, reasons for such deviations, and a description of corrective actions taken.	
e) The results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emission limits and/or to establish operating limits, as applicable. Retain a copy of the complete test report including calculations.	ADEM Admin Code r. 335-3-.05(11)(f)
f) Records showing the names of CISWI unit operators who have completed review of the information in subparagraph (5)(g)1. as required by subparagraph (5)(g)2. of this rule, including the date of the initial review and all subsequent annual reviews.	ADEM Admin Code r. 335-3-.05(11)(g)
g) Records showing the names of the CISWI operators who have completed the operator training requirements, met the criteria for qualification, and maintained or renewed their qualification under paragraph (5) of this rule. Records shall include documentation of training, the dates of the initial and refresher training, and the dates of their qualification and all subsequent renewals of such qualifications.	ADEM Admin Code r. 335-3-.05(11)(h)
h) For each qualified operator, the phone and/or pager number at which they can be reached during operating hours.	ADEM Admin Code r. 335-3-.05 (i)
i) Records of calibration of any monitoring devices as required under paragraph (10) of this rule.	ADEM Admin Code r. 335-3-.05(11)(j)
j) Equipment vendor specifications and related operation and maintenance requirements for the incinerator, emission controls, and monitoring equipment	ADEM Admin Code r. 335-3-.05(11)(k)
k) The information listed in subparagraph (5)(g) of this rule.	ADEM Admin Code r. 335-3-.05(11)(l)

Federally Enforceable Provisos**Regulations**

- 1) On a daily basis, keep a log of the quantity of waste burned and the types of waste burned (always required).
- m) Maintain records of the annual air pollution control device inspections that are required for each CISWI unit subject to the emissions limits in table 1 of this rule or tables 5 through 8 of this rule, any required maintenance and any repairs not completed within 10 days of an inspection or the timeframe established by the Director.
15. For continuously monitored pollutants or parameter, the owner or operator shall document and keep a record of the following parameters measured using continuous monitoring systems.
- a. All 6-minute average levels of opacity.
 - b. All 1-hour average concentrations of sulfur dioxide emissions. The owner or operator shall indicate which data are CEMS data during startup and shutdown.
 - c. All 1-hour average concentrations of nitrogen oxides emissions. The owner or operator shall indicate which data are CEMS data during startup and shutdown.
 - d. All 1-hour average concentrations of carbon monoxide emissions. The owner or operator shall indicate which data are CEMS data during startup and shutdown.
 - e. All 1-hour average concentrations of particulate matter emissions. The owner or operator shall indicate which data are CEMS data during startup and shutdown.
 - f. All 1-hour average concentrations of mercury emissions. The owner or operator shall indicate which data are CEMS data during startup and shutdown.
 - g. All 1-hour average concentrations of hydrogen chloride emissions. The owner or operator shall indicate which data are CEMS data during startup and shutdown.
 - h. All 1-hour average percent oxygen concentrations.
 - i. All 1-hour average PM CPMS readings or particulate matter CEMS outputs.

ADEM Admin Code r.
335-3-.05(11)(m)

ADEM Admin Code r.
335-3-.05(11)(n)

ADEM Admin Code r.
335-3-.05(11)(o)(1-9)

Federally Enforceable Provisos	Regulations
16. Records indicating use of the bypass stack, including dates, times and durations.	ADEM Admin Code r. 335-3-.05(11)(p)
17. If choosing to stack test less frequently than annually, consistent with ADEM Admin Code r. 335-3-.05(9)(aa), the owner or operator shall keep annual records that document that the emissions in the previous stack test(s) were less the 75 percent of the applicable emission limit and document that there was no change in source operations including fuel composition and operation of air pollution control equipment that would cause emissions of the relevant pollutant to increase within the past year.	ADEM Admin Code r. 335-3-.05(11)(q)
18. Records of the occurrence and duration of each malfunction of operation (i.e. , process equipment) or the air pollution control and monitoring equipment.	ADEM Admin Code r. 335-3-.05(11)(r)
19. Records of all required maintenance performed on the air pollution control and monitoring equipment.	ADEM Admin Code r. 335-3-.05(11)(s)
20. Records of actions taken during periods of malfunction to minimize emissions in accordance with § 60.11(d) of 40 CFR part 60, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.	ADEM Admin Code r. 335-3-.05(11)(t)
21. All records shall be available onsite in either paper copy or computer readable format that can be printed upon request, unless an alternative format is approved by the Director.	ADEM Admin Code r. 335-3-.05(11)(x)
22. A summary of the reporting requirements can be found in Table 4 of ADEM Admin Code r. 335-3-5.	ADEM Admin Code r. 335-3-.05(11)(y)
23. The waste management plan shall be submitted no later than the date specified in subparagraph (3)(a)1. of this rule for submittal of the final control plan.	ADEM Admin Code r. 335-3-.05(11)(z)

Federally Enforceable Provisos	Regulations
<p>24. The information specified in subparagraphs (aa)1. through 3. of this paragraph below shall be submitted no later than 60 days following the initial performance test. All reports shall be signed by the responsible official.</p> <p>a) The complete test report for the initial performance test results obtained under paragraph (8) of this rule is applicable.</p> <p>b) The values for the site specific operating limits established in subparagraphs (6)(b) or (c) of this rule</p> <p>c) The fabric filter being used to comply with the emission limitations, documentation that a bag leak detection system has been installed and is being operated, calibrated, and maintained as required by subparagraph (10)(b) of this rule.</p>	<p>ADEM Admin Code r. 335-3-.05(11)(aa)(1-3)</p>
<p>25. An annual report shall be submitted no later than 12 months following the submission of the information in subparagraph (aa) of this paragraph above. Subsequent reports shall be submitted no more than 12 months following the previous report. (If the unit is subject to permitting requirements under title V of the Clean Air Act, the owner or operator may be required by the permit to submit these reports more frequently.)</p>	<p>ADEM Admin Code r. 335-3-.05(11)(bb)</p>
<p>26. The annual report required under subparagraph (bb) of this paragraph above shall include the ten items listed in subparagraphs (cc)1. through 10. of this paragraph below. If there is a deviation from the operating limits or the emission limitations, deviation reports shall also be submitted as specified in subparagraph (dd) of this paragraph below.</p> <p>a) Company name and address.</p> <p>b) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.</p> <p>c) Date of report and beginning and ending dates of the reporting period.</p> <p>d) The values for the operating limits established pursuant to subparagraphs (6)(b) or (6)(c) of this rule.</p>	<p>ADEM Admin Code r. 335-3-.05(11)(cc)(1-15)</p>

Federally Enforceable Provisos**Regulations**

- e) If no deviation from any emission limitation or operating limit that applies has been reported, a statement that there was no deviation from the emission limitations or operating limits during the reporting period.
- f) The highest recorded 3-hour average and the lowest recorded 3-hour average, as applicable, for each operating parameter recorded for the calendar year being reported.
- g) Information recorded under subparagraphs (b)6. and (e) of this paragraph for the calendar year being reported.
- h) If a performance test was conducted during the reporting period, the results of that test.
- i) If the requirements of subparagraphs (9)(aa) were met, and did not conduct a performance test during the reporting period, the owner or operator shall state that the requirements of subparagraphs (9)(aa) were met, and, therefore, were not required to conduct a performance test during the reporting period.
- j) Documentation of periods when all qualified CISWI unit operators were unavailable for more than 8 hours, but less than 2 weeks.
- k) If there was a malfunction during the reporting period, the compliance report shall include the number, duration, and a brief description for each type of malfunction that occurred during the reporting period and that caused or may have caused any applicable emission limitation to be exceeded. The report shall also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with § 60.11(d), including actions taken to correct a malfunction.
- l) For each deviation from an emission or operating limitation that occurs for a CISWI unit for which a CMS is not being used to comply with the emission or operating limitations in this rule, the annual report shall contain the following information.
 - (i) The total operating time of the CISWI unit at which the deviation occurred during the reporting period.

Federally Enforceable Provisos**Regulations**

(ii) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

m) If there were periods during which the continuous monitoring system, including the CEMS, was out of control as specified in subparagraph (11)(cc)15. of this paragraph, the annual report shall contain the following information for each deviation from an emission or operating limitation occurring for a CISWI unit for which a continuous monitoring system is being used to comply with the emission and operating limitations in this rule.

(i) The date and time that each malfunction started and stopped.

(ii) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.

(iii) The date, time, and duration that each continuous monitoring system was out-of-control, including start and end dates and hours and descriptions of corrective actions taken.

(iv) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.

(v) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.

vi) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.

(vii) A summary of the total duration of continuous monitoring system downtime during the reporting period, and the total duration of continuous monitoring system downtime as a percent of the total operating time of the CISWI unit at which the continuous monitoring system downtime occurred during that reporting period.

(viii) An identification of each parameter and pollutant that was monitored at the CISWI unit.

Federally Enforceable Provisos**Regulations**

- (ix) A brief description of the CISWI unit.
 - (x) A brief description of the continuous monitoring system.
 - (xi) The date of the latest continuous monitoring system certification or audit.
 - (xii) A description of any changes in continuous monitoring system, processes, or controls since the last reporting period.
- n) If there were periods during which the continuous monitoring system, including the CEMS, was not out of control as specified in subparagraph (ll)(cc)15. of this paragraph, a statement that there were not periods during which the continuous monitoring system was out of control during the reporting period.
- o) A continuous monitoring system is out of control if any of the following occur.
- (i) The zero (low-level), mid-level (if applicable), or high-level calibration drift exceeds two times the applicable calibration drift specification in the applicable performance specification or in the relevant standard.
 - (ii) The continuous monitoring system fails a performance test audit (e.g. , cylinder gas audit), relative accuracy audit, relative accuracy test audit, or linearity test audit.
 - (iii) The continuous opacity monitoring system calibration drift exceeds two times the limit in the applicable performance specification in the relevant standard.
27. Reporting of deviations from the operating limits or the emission limitations.
- a) A deviation report shall be submitted if any recorded 3-hour average parameter level is above the maximum operating limit or below the minimum operating limit established under this rule, if the bag leak detection system alarm sounds for more than 5 percent of the operating time for the 6-month reporting period, or if a performance test was conducted that deviated from any emission limitation.

ADEM Admin Code r.
335-3-.05(11)(dd)(1-4)

Federally Enforceable Provisos**Regulations**

- b) The deviation report shall be submitted by August 1 of that year for data collected during the first half of the calendar year (January 1 to June 30), and by February 1 of the following year for data collected during the second half of the calendar year (July 1 to December 31).
- c) In each report required under this subparagraph, for any pollutant or parameter that deviated from the emission limitations or operating limits specified in this rule, include the items described in subparagraphs (dd)3.(i) through (iv) of this paragraph below.
- (i) The calendar dates and times the CISWI unit deviated from the emission limitations or operating limit requirements.
- (ii) The averaged and recorded data for those dates.
- (iii) Duration and causes of the following:
- (I) Each deviation from emission limitations or operating limits and corrective actions taken.
- (II) Bypass events and corrective actions taken.
- (iv) A copy of the operating limit monitoring data during each deviation and any test report that documents the emission levels.
- d) If all qualified operators are not accessible for 2 weeks or more, the two actions in subparagraphs (dd)4.(i) and (ii) of this paragraph below shall be taken.
- (i) Submit a notification of the deviation within 10 days that includes the three items in subparagraphs (dd)4.(i)(I) through (III) of this paragraph below.
- (I) A statement of what caused the deviation.
- (II) A description of what actions are being taken to ensure that a qualified operator is accessible.
- (III) The date when it is anticipated that a qualified operator will be available.
- (ii) Submit a status report to the Director every 4 weeks that includes the three items in subparagraphs (dd)4.(ii)(I) through (III) of this paragraph below.

Federally Enforceable Provisos**Regulations**

<p>(I) A description of what actions are being taken to ensure that a qualified operator is accessible.</p> <p>(II) The date when it is anticipated that a qualified operator will be accessible.</p> <p>(III) Request approval from the Director to continue operation of the CISWI unit.</p> <p>(iii) If the CISWI unit was shut down by the Administrator, under the provisions of subparagraph (5)(h)2.(ii) of this rule, due to a failure to provide an accessible qualified operator, the owner or operator shall notify the Administrator that operations will resume once a qualified operator is accessible.</p>	
<p>28. Notifications provided by 40 CFR, §60.7 [as incorporated by reference under ADEM Admin. Code r. 335-3-10-.02(1)] shall be submitted.</p>	<p>ADEM Admin Code r. 335-3-.05(11)(ee)</p>
<p>29. If the owner or operator cease combusting solid waste but continue to operate, the owner or operator shall provide 30 days prior notice of the effective date of the waste-to-fuel switch, consistent with paragraph (9)(a) of this rule. The notification must identify:</p> <ul style="list-style-type: none">a) The name of the owner or operator of the CISWI unit, the location of the source, the emissions unit(s) that will cease burning solid waste, and the date of the notice;b) The currently applicable subcategory under this rule, and any 40 CFR part 63 subpart and subcategory that will be applicable after combusting solid waste is ceased;c) The fuel(s), non-waste material(s) and solid waste(s) the CISWI unit is currently combusting and has combusted over the past 6 months, and the fuel(s) or non-waste materials the unit will commence combusting;d) The date on which the unit became subject to the currently applicable emission limits;	<p>ADEM Admin Code r. 335-3-.05(11)(ff)(1-5)</p>

Federally Enforceable Provisos

Regulations

e) The date upon which the unit will cease combusting solid waste, and the date (if different) that the owner or operator intend for any new requirements to become applicable (i.e., the effective date of the waste-to-fuel switch), consistent with subparagraphs (ff)2. and 3. of this paragraph.

30. Initial, annual, and deviation reports shall be submitted electronically or in paper format, postmarked on or before the submittal due dates.

ADEM Admin Code r. 335-3-.05(11)(gg)(1-2)

31. Submit results of performance tests and CEMS performance evaluation test as follows.

ADEM Admin Code r. 335-3-.05(11)(hh)(1-2)

a) Within 60 days after the date of completing each performance test as required by this rule, the owner or operator shall submit the results of the performance tests required by this rule to EPA's WebFIRE database by using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX)(www.epa.gov/cdx). Performance test data must be submitted in the file format generated through use of EPA's Electronic Reporting Tool (ERT) (see <http://www.epa.gov/ttn/chief/ert/index.html>). Only data collected using test methods on the ERT Web site are subject to this requirement for submitting reports electronically to WebFIRE. Owners or operators who claim that some of the information being submitted for performance tests is confidential business information (CBI) must submit a complete ERT file including information claimed to be CBI on a compact disk, flash drive, or other commonly used electronic storage media to EPA. The electronic media must be clearly marked as CBI and mailed to U.S. EPA/OAPQS/CORE CBI Office, Attention: WebFIRE Administrator, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same ERT file with the CBI omitted must be submitted to EPA via CDX as described earlier in this subparagraph. At the discretion of the delegated authority, the owner or operator shall also submit these reports, including the confidential business information, to the Director in the format specified by the Director. For any performance test conducted using test methods that are not listed on the ERT Web site, the owner or operator shall submit the results of the performance test in paper submissions to the Administrator.

b) Within 60 days after the date of completing each CEMS performance evaluation test, as defined in this rule and required by this rule, the owner or operator shall submit the relative accuracy test audit (RATA) data electronically into EPA's Central Data Exchange by using CEDRI as mentioned in paragraph (b)(1) of this section. Only RATA pollutants that can be documented with the ERT (as listed on the ERT Web site) are subject to this requirement. For any performance evaluations with no corresponding RATA pollutants listed on the ERT Web site, the owner or operator shall submit the results of the performance evaluation in paper submissions to the Administrator.

(ii) The Director may change the semiannual or annual reporting dates. Procedures for seeking approval to change reporting dates are found in 40 CFR, § 60.19(c) [as incorporated by reference under ADEM Admin. Code r. 335-3-10-.02(1)].

Summary Page for Clinker Handling & Grinding Area 400

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission Limit	Regulation
31-BF-627	Clinker Conveyor	PM	0.0115 gr/acf 0.60 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
31-BF-632	Clinker Silo #2	PM	0.0115 gr/acf 0.59 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
31-BF-637	Clinker Silo Gate #635 & Loading Spout #638	PM	0.0115 gr/acf 0.15 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
31-BF-642	Clinker Silo Gate #640 & Loading Spout #643	PM	0.0115 gr/acf 0.15 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
31-BF-648	Clinker Silo Gate #646 & Loading Spout #649	PM	0.0115 gr/acf 0.15 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
31-BF-691	Clinker Silo Conveyor Transfer	PM	0.0115 gr/acf 0.35 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
31-BF-693	Clinker Silo Conveyor Transfer	PM	0.0115 gr/acf 0.35 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
31-BF-714	Off-Spec Clinker Silo	PM	0.0115 gr/acf 0.39 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
31-BF-727	Off-Spec Clinker Feed to Finish Mill	PM	0.0115 gr/acf 0.59 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
31-BF-735	Clinker Belt Conveyor	PM	0.0115 gr/acf 0.72 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
433DC01	Finish Mill #3 Gypsum Bin	PM	0.0115 gr/acf 0.40 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
433DC02	Finish Mill #3 Limestone Bin	PM	0.0115 gr/acf 0.40 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
436DC05	Finish Mill #3 Feed Belt	PM	0.0115 gr/acf 0.96 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
436DC06	Finish Mill #3 Feed Belt	PM	0.0115 gr/acf 0.39 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
436DC01	Finish Mill #3 Mill Vent (Sweep)	PM	0.0115 gr/acf 4.06 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD

436DC02	Finish Mill #3 Separator	PM	0.0115 gr/acf 11.9 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
436DC03	Finish Mill #3 Fringe Bin & Bucket Elevator	PM	0.0115 gr/acf 0.91 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
436DC04	Finish Mill #3 FK Pump, Cement Cooler & Air Slides	PM	0.0115 gr/acf 0.39 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-403	Additives Silos and Handling (2)	PM	1.29 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-404	Finish Mill #2 Feed	PM	1.10 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-405	Finish Mill #2 Sweep	PM	4.90 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-406	Finish Mill #2 Air Separator	PM	17.60 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-408	Finished Cement Conveying	PM	0.80 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-409	Fringe Cement Silo (Fringe Bin - #2 Finish Mill)	PM	1.00 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
***	All sources listed above	Opacity	10%	40 CFR 60 Subpart F: 60.62 40 CFR 63 Subpart LLL: 63.1345

Provisos for Clinker Handling & Grinding Area 400

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, " <i>Major Source Operating Permits.</i> "	ADEM Admin. Code r. 335-3-16-.03
2. These sources are subject to the applicable requirements of 40 CFR 63, Subpart LLL (<i>National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry</i>).	40 CFR 63, Subpart LLL: §63.1340
3. These sources are subject to the applicable requirements of 40 CFR 60, Subpart F (<i>Standards of Performance for Portland Cement Plants</i>)."	40 CFR 60 Subpart F: §63.60
4. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, " <i>Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]</i> ."	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
5. This source has enforceable limits in place in order comply with the provisions of ADEM Admin. Code r. 335-3-14-.04, " <i>Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]</i> ."	ADEM Admin. Code r. 335-3-14-.04 BACT
<u>Emission Standards</u>	
1. No source associated with Area 400 shall discharge to the atmosphere emissions in excess of 10% opacity.	40 CFR 63, Subpart LLL §63.1345 40 CFR 60, Subpart F §60.62
2. These sources are subject to the applicable requirements outline in 40 CFR 60 Subpart F, "Standards".	40 CFR 60, Subpart F §60.62
3. There shall be written operations and maintenance plan for each source and air pollution control device subject to this subpart. The O&M plan shall identify the location of open clinker piles and the fugitive dust control measures that apply to them.	40 CFR 63, Subpart LLL: §63.1343(c) and §63.1347

Federally Enforceable Provisos

Regulations

- 4. If an affected facility subject to this subpart has a different emission limit or requirement for the same pollutant under another regulation in title 40 of this chapter, the owner or operator of the affected facility must comply with the most stringent emission limit or requirement and is exempt for the less stringent requirement.
- 5. The Permittee shall not cause to be discharged to the atmosphere particulate matter emissions from the following sources in excess of the listed emission rates:

40 CFR 63, Subpart LLL §63.1356

ADEM Admin. Code r. 335-3-14-.04
Anti-PSD

Source ID	Source Description	Emission Rate	
		(gr/acf)	(lb/hr)
31-BF-627	Clinker Conveyor	0.0115	0.60
31-BF-632	Clinker Silo	0.0115	0.59
31-BF-637	Clinker Silo Gate #635 & Loading Spout #638	0.0115	0.15
31-BF-642	Clinker Silo Gate #640 & Loading Spout #643	0.0115	0.15
31-BF-648	Clinker Silo Gate #646 & Loading Spout #649	0.0115	0.15
31-BF-691	Clinker Silo Conveyor Transfer	0.0115	0.35
31-BF-693	Clinker Silo Conveyor Transfer	0.0115	0.35
31-BF-714	Off-Spec Clinker Silo	0.0115	0.39
31-BF-727	Off-Spec Clinker Feed to Finish Mill	0.0115	0.59
31-BF-735	Clinker Belt Conveyor	0.0115	0.72
433DC01	Finish Mill #3 Gypsum Bin	0.0115	0.40

Federally Enforceable Provisos

Regulations

Source ID	Source Description	Emission Rate	
		(gr/acf)	(lb/hr)
433DC02	Finish Mill #3 Limestone Bin	0.0115	0.40
436DC05	Finish Mill #3 Feed Belt	0.0115	0.96
436DC01	Finish Mill #3 Mill Vent (Sweep)	0.0115	4.06
436DC02	Finish Mill #3 Separator	0.0115	11.9
436DC03	Finish Mill #3 Fringe Bin & Bucket Elevator	0.0115	0.91
436DC04	Finish Mill #3 FK Pump, Cement Cooler & Air Slides	0.0115	0.39

6. The Permittee shall not cause to be discharged to the atmosphere particulate matter emissions from the following sources in excess of the listed emission rates:

ADEM Admin. Code r. 335-3-14-.04
Anti-PSD

Source ID	Source Description	Emission Rate	
		(lb/hr)	(TPY)
EU-403	Additives Silos and Handling (2)	1.29	5.63
EU-404	Finish Mill #2 Feed	1.10	4.82
EU-405	Finish Mill #2 Sweep	4.90	21.46
EU-406	Finish Mill #2 Air Separator	17.60	77.09
EU-408	Finished Cement Conveying	0.80	3.5
EU-409	Fringe Cement Silo (Fringe Bin - #2 Finish Mill)	1.00	4.4

Compliance and Performance Test Methods and Procedures

1. Method 5 of 40 CFR 60, Appendix A, shall be used in the determination of particulate matter emissions.
2. Method 9 of 40 CFR 60, Appendix A, shall be used in the determination of opacity.

ADEM Admin. Code r. 335-3-1-.05
ADEM Admin. Code r. 335-3-1-.05

Federally Enforceable Provisos	Regulations
3. Method 22 of 40 CFR 60, Appendix A, shall be used to determine the presence of visible/fugitive emissions.	ADEM Admin. Code r. 335-3-1-.05
4. These sources are subject to the applicable requirements outlined in 40 CFR 60: Subpart F, "Test Methods and Procedures".	40 CFR 60, Subpart F: §60.64
5. These sources are subject to the applicable requirements outlined in 40 CFR 63: Subpart LLL, "Performance testing requirements".	40 CFR 60, Subpart LLL: §63.1349
<u>Emission Monitoring</u>	
1. Visual checks of each source within Area 400 (except the finish mills sweep and separator stack) shall be made at least once per week by a person familiar with Method 9. At least once per month, the visual check must be performed in accordance with EPA Reference Method 22. If visible emissions are noted from any source, an EPA Reference Method 9 test shall be performed for a minimum of 6 minutes. The Method 9 test shall be performed within 1 hour of the initial observation of visible emissions.	ADEM Admin. Code r. 335-3-16-.05(c)
(a) If during any Method 9 test, visible emissions are observed to be greater than 5% opacity, corrective action shall be initiated within 2 hours of the observation to eliminate the emissions. After the corrective action has been completed, the Permittee shall conduct another visual check to ensure that the visible emissions have been eliminated.	
(b) If, at any time, a Method 9 test results in visible emissions in excess of the applicable opacity standard, the Department shall be notified within 24 hours of the observation, as stated in General Proviso 15(b).	
2. Visual checks of the finish mills (Sweep and Separator Stacks) shall be conducted daily. The visual checks shall be made in accordance with EPA Reference Method 22 and shall be performed for at least 6 minutes.	ADEM Admin. Code r. 335-3-16-.05(c)
(a) If during a visual check, any visible emissions are observed, corrective action shall be taken within 1 hour of the observation to eliminate the emissions. Within 24 hours of any Method 22 test that resulted in the observance of visible emissions, the Permittee shall conduct another Method 22 test to ensure that the visible emissions have been eliminated.	

Federally Enforceable Provisos**Regulations**

(b) If visible emissions are noted during a follow-up Method 22 test, the Permittee shall initiate corrective action within 1 hour of the observation to eliminate the emissions. In addition, the Permittee shall conduct an EPA Reference Method 9 test for a minimum of 30 minutes. The Method 9 test shall be performed within 1 hour of the Method 22 test which resulted in the observance of visible emissions.

3. These sources are subject to the applicable requirements outlined in 40 CFR 60: Subpart F, "Monitoring of Operations".

40 CFR 60, Subpart F:
§60.63

4. These sources are subject to the applicable requirements outlined in 40 CFR 63: Subpart LLL, "Monitoring requirements". If visible emissions are observed, corrective action shall be initiated within one (1) hour.

40 CFR 60, Subpart
LLL: §63.1350

Recordkeeping and Reporting Requirements

1. Records of all visual checks and corrective actions taken, as well as Method 9 test results and follow-up visual checks shall be maintained in a form suitable for inspection and kept on site for a period of at least 5 years.

ADEM Admin. Code r.
335-3-16-.05(c)

2. These sources are subject to the applicable requirements outlined in 40 CFR 60, Subpart F: "Recordkeeping and reporting requirements". Records shall be kept of the occurrence and duration of SSM events, malfunctions of controls, or periods when monitors are inoperative.

40 CFR, Subpart F:
§60.65

3. These sources are subject to the applicable requirements outlined in 40 CFR 63, Subpart LLL: "Reporting requirements".

40 CFR, Subpart LLL:
§63.1354

4. These sources are subject to the applicable requirements outlined in 40 CFR 63, Subpart LLL: "Recordkeeping requirements."

40 CFR, Subpart LLL:
§63.1355

5. A semi-annual report shall be submitted to the Department containing the following information:

ADEM Admin. Code r.
335-3-16-.05(c)(3)

(a) Detailed description of every instance in which any observed six-minute average opacity was equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated;

Federally Enforceable Provisos	Regulations
(b) A copy of each report generated during any Method 9 visible emissions observation conducted in accordance with (a) during the reporting period;	
(c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required;	
(d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and	
(e) Signature of the responsible official as required by General Permit Proviso No. 9.	
(f) Information on any malfunctions that caused an exceedance of a limit under these subparts, including date, time, duration, cause, level of excess emissions, actions to minimize emissions during the malfunction and corrective actions.	40 CFR 63, Subpart F: §60.65
(g) If an affirmative defense is being sought, a written report meeting the requirements in Subpart LLL.	40 CFR 63, Subpart LLL: §63.1354 and §63.1344

Summary Page for Finished Product Handling & Storage Area 500

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission Limit	Regulation
36-BF-610	Cement Silos #19 & #20	PM	0.0115 gr/acf 1.80 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
36-BF-690	Cement Silo #19 Loadout	PM	0.0115 gr/acf 0.21 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
36-BF-695	Cement Silo #20 Loadout	PM	0.0115 gr/acf 0.21 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-502	Cement Silos 1, 2, 3	PM	0.02 gr/acf 1.71 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-503	Cement Silos 4, 5, 6			
EU-504	Cement Silos 11, 12, 13, 14, 15, 16			
EU-508	Storage Silo A (2)	PM	1.71 lb/hr 7.51 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-509	Storage Silos B, C (2)	PM	1.71 lb/hr 7.51 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-510	Storage Silo D (2)	PM	1.71 lb/hr 7.51 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-511	Storage Silos E, F (2)	PM	1.71 lb/hr 7.51 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-512	Storage Silo G (2)	PM	1.71 lb/hr 7.51 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-513	Storage Silos H, I	PM	1.71 lb/hr 7.51 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-514	Storage Silo J (2)	PM	1.71 lb/hr 7.51 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-515	Cement Packing Machine (w/ 2 baghouses)	PM	3.43 lb/hr 15.02 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-516	Cleanup Vacuum #1	PM	0.34 lb/hr 1.50 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-517	Cleanup Vacuum #2	PM	0.34 lb/hr 1.50 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD

EU-518	10,000-Ton Cement Silo #17	PM	1.64 lb/hr 7.18 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-519	Truck Loadout (Silo #17)	PM	0.32 lb/hr 1.40 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-520	Rail Loadout (Silo #17)	PM	0.32 lb/hr 1.40 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
EU-521	Truck Loadout (Silo #17)	PM	0.32 lb/hr 1.40 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD

Provisos for Finished Product Handling & Storage Area 500

Federally Enforceable Provisos

Regulations

Applicability

- | | |
|--|--|
| 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits." | ADEM Admin. Code r. 335-3-16-.03 |
| 2. These sources are subject to the applicable requirements of 40 CFR 63, Subpart LLL (<i>National Emission Standards for Hazardous Air Pollutants From the Portland Cement Industry</i>). | 40 CFR 63, Subpart LLL: §63.1340 |
| 3. These sources are subject to the applicable requirements of 40 CFR 60, Subpart F (<i>Standards of Performance for Portland Cement Plants</i>). | 40 CFR 60, Subpart F: §60.60 |
| 4. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]." | ADEM Admin. Code r. 335-3-14-.04
Anti-PSD |
| 5. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]." | ADEM Admin. Code r. 335-3-14-.04
BACT |

Emission Standards

- | | |
|---|---|
| 1. No source associated with Area 500 shall discharge to the atmosphere emissions in excess of 10% opacity. | 40 CFR 63, Subpart LLL §63.1345 |
| 2. The Permittee shall not cause to be discharged to the atmosphere particulate matter emissions from the following sources in excess of the listed emission rates: | ADEM Admin Code r. 335-3-14-.04
Anti-PSD |

Source ID	Source Description	Emission Rate	
		(gr/acf)	(lb/hr)
36-BF-610	Cement Silos #19 & #20	0.0115	1.80
36-BF-690	Cement Silo #19 Loadout	0.0115	0.21
36-BF-695	Cement Silo #20 Loadout	0.0115	0.21
EU-502	Cement Silos 1, 2, 3	0.02	1.71
EU-503	Cement Silos 4, 5, 6		
EU-504	Cement Silos 11, 12, 13, 14, 15, 16		

Federally Enforceable Provisos

Regulations

3. The Permittee shall not cause to be discharged to the atmosphere particulate matter emissions from the following sources in excess of the listed emission rates:

ADEM Admin Code r.
335-3-14-.04
Anti-PSD

Source ID	Source Description	Emission Rate	
		(lb/hr)	(TPY)
EU-508	Storage Silo A (2)	1.71	7.51
EU-509	Storage Silos B, C (2)	1.71	7.51
EU-510	Storage Silo D (2)	1.71	7.51
EU-511	Storage Silos E, F (2)	1.71	7.51
EU-512	Storage Silo G (2)	1.71	7.51
EU-513	Storage Silos H, I	1.71	7.51
EU-514	Storage Silo J (2)	1.71	7.51
EU-515	Cement Packing Machine (w/ 2 baghouses)	3.43	15.02
EU-516	Cleanup Vacuum #1	0.34	1.50
EU-517	Cleanup Vacuum #2	0.34	1.50
EU-518	10,000-Ton Cement Silo #17	1.64	7.18
EU-519	Truck Loadout (Silo #17)	0.32	1.40
EU-520	Rail Loadout (Silo #17)	0.32	1.40
EU-521	Truck Loadout (Silo #17)	0.32	1.40

4. The 12 Cement Silos shall not be operated in excess of 1500 hours in any consecutive 12-month period.

ADEM Admin Code r.
Anti-PSD

5. Only one group of Cement Silos (controlled by a common baghouse) may be loaded or unloaded at any given time.

ADEM Admin Code r.
Anti-PSD

6. If an affected facility subject to this subpart has a different emission limit or requirement for the same pollutant under another regulation in title 40 of this chapter, the owner or operator of the affected facility must comply with the most stringent emission limit or requirement and is exempt for the less stringent requirement.

40 CFR 63, Subpart
LLL §63.1356

Federally Enforceable Provisos**Regulations****Compliance and Performance Test Methods and Procedures**

- | | |
|--|-------------------------------------|
| 1. Method 5 of 40 CFR 60, Appendix A, shall be used in the determination of particulate emissions. | ADEM Admin Code r. Rule 335-3-1-.05 |
| 2. Method 9 of 40 CFR 60, Appendix A, shall be used in the determination of opacity. | ADEM Admin Code r. Rule 335-3-1-.05 |
| 3. Method 22 of 40 CFR 60, Appendix A, shall be used to determine the presence of visible/fugitive emissions. | ADEM Admin Code r. 335-3-1-.05 |
| 4. These sources are subject to the applicable requirements outlined in 40 CFR 60: Subpart F, " <i>Test Methods and Procedures</i> ". | 40 CFR 60, Subpart F: §60.64 |
| 5. These sources are subject to the applicable requirements outlined in 40 CFR 63: Subpart LLL, " <i>Performance Testing Requirements</i> ". | 40 CFR 60, Subpart LLL: §63.1349 |

Emission Monitoring

- | | |
|---|-------------------------------------|
| 1. Visual checks of each source within Area 500 shall be made at least once per week by a person familiar with Method 9. At least once per month, the visual check must be performed in accordance with EPA Reference Method 22. If visible emissions are noted from any source, an EPA Reference Method 9 test shall be performed for a minimum of 6 minutes. The Method 9 test shall be performed within 1 hour of the initial observation of visible emissions.

(a) If during any Method 9 test, visible emissions are observed to be greater than 5% opacity, corrective action shall be initiated within 2 hours of the observation to eliminate the emissions. After the corrective action has been completed, the Permittee shall conduct another visual check to ensure that the visible emissions have been eliminated. | ADEM Admin. Code r. 335-3-16-.05(c) |
| 2. These sources are subject to the applicable requirements outlined in 40 CFR 60: Subpart F, "Monitoring of Operations". | 40 CFR 60, Subpart F: §60.63 |
| 3. These sources are subject to the applicable requirements outlined in 40 CFR 63: Subpart LLL, "Monitoring requirements". If visible emissions are observed, corrective action shall be initiated within one (1) hour. CFR 60, Subpart F: §60.63 | 40 CFR 60, Subpart LLL: §63.1350 |

Federally Enforceable Provisos	Regulations
<u>Recordkeeping and Reporting Requirements</u>	
<p>1. A record of Cement Silo operations shall be kept to show that only one group of silos (controlled by a common baghouse) was operated at a time. This record shall also reflect the total hours of operation for all silos in each consecutive 12-month period.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>
<p>2. Records of all visual checks and corrective actions taken, as well as Method 9 test results and follow-up visual checks shall be maintained in a form suitable for inspection and kept on site for a period of at least 5 years.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>
<p>3. A semi-annual report shall be submitted to the Department containing the following information:</p> <ul style="list-style-type: none"> (a) Detailed description of every instance in which any observed six-minute average opacity was equal to or greater than the applicable opacity standard, to include the date, time, cause of the visible emissions, observed opacity, and any corrective action initiated; (b) A copy of each report generated during any Method 9 visible emissions observation conducted in accordance with (a) during the reporting period; (c) Statement certifying that all required monitoring, recordkeeping, and reporting requirements were accomplished as required; (d) Statement of certification of truth, accuracy, and completeness as described in General Permit Proviso No. 9; and (e) Signature of the responsible official as required by General Permit Proviso No. 9. (f) Information on any malfunctions that caused an exceedance of a limit under these subparts, including date, time, duration, cause, level of excess emissions, actions to minimize emissions during the malfunction and corrective actions. (g) If an affirmative defense is being sought, a written report meeting the requirements in Subpart LLL. 	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>

Summary Page for Petroleum Storage

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
800	20,000 Gallon Diesel AST (Tank 003)	VOC	N/A	N/A

Provisos for Petroleum Storage

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits."	ADEM Admin Code. r 335-3-16-.03
<u>Emission Standards</u>	
1. There are no applicable emission standards which apply to the storage tank permitted under this source.	N/A
<u>Compliance and Performance Test Methods and Procedures</u>	
1. There are no compliance and performance test methods or procedures which apply to the storage tank permitted under this source	N/A
<u>Emission Monitoring</u>	
1. There are no emission monitoring requirements which apply to the storage tank permitted under this source.	N/A
<u>Recordkeeping and Reporting Requirements</u>	
1. There are no recordkeeping or reporting requirements, other than those listed in the General Provisos of this permit, that apply to the storage tank permitted under this source.	N/A

PERMIT APPLICATION SUMMARY FORM

General Facility Information	
Company name:	Argos Cement, LLC
Facility Name:	Argos Cement, LLC
Address:	8039 Highway 29 West
Location:	Calera, Alabama
Source description:	Portland Cement Manufacturing Facility
SIC code of major product:	3241
AFS(9-digit) Plant ID:	01-117-0004
Date application received:	4-21-2010
Permit number(s):	411-0004

Emissions Summary	
Pollutant	Potential Emissions (TPY)
PM	941.04
SO ₂	1,716.00
NO _x	1,870
CO	3,119.96
VOC	41.00
Lead	0.07
HAP	<10 TPY
CO ₂	1,684,800
CH ₄	79.88
N ₂ O	11.62
CO ₂ e	1,690,079

Application Type/Permitting Activity	Compliance Summary
Initial Issuance <input type="checkbox"/>	Source is out of compliance <input type="checkbox"/>
Permit Modification <input type="checkbox"/>	Compliance certification signed <input checked="" type="checkbox"/>
Permit Renewal <input checked="" type="checkbox"/>	Compliance schedule included <input type="checkbox"/>
General Permit <input type="checkbox"/>	
Conditional Major <input type="checkbox"/>	

Applicable Requirements	
NSR <input type="checkbox"/>	NESHAP/MACT <input checked="" type="checkbox"/>
PSD <input checked="" type="checkbox"/>	SIP <input checked="" type="checkbox"/>
NSPS <input checked="" type="checkbox"/>	Other <input type="checkbox"/>

Miscellaneous	
Acid rain source	<input type="checkbox"/>
Source subject to 112(r)	<input type="checkbox"/>
Source requested synthetic PTE limit to avoid major source requirement (e.g., PSD, MACT)	<input type="checkbox"/>
Source subject to case-by-case 112(g) or (j) determination	<input type="checkbox"/>
Source applied for federally enforceable emissions cap	<input type="checkbox"/>
Source applied for a plant-wide applicability limit (PAL)	<input type="checkbox"/>
Source provided terms for alternative operating scenarios	<input type="checkbox"/>
Source requested terms for operational flexibility	<input type="checkbox"/>
Source requested streamlining of multiple applicable requirements	<input type="checkbox"/>
Source requested monitoring plan to establish periodic monitoring	<input type="checkbox"/>
Application proposes new control technology	<input type="checkbox"/>
Certified by responsible official	<input checked="" type="checkbox"/>
Diagrams or drawings included	<input checked="" type="checkbox"/>
Confidential business information (CBI) included	<input type="checkbox"/>