# JEFFERSON COUNTY DEPARTMENT OF HEALTH

#### AIR POLLUTION PROGRAM

#### TITLE V OPERATING PERMIT

Permittee: HM Southeast Cement, LLC. (FKA Lehigh Hanson Cement South, LLC.)

Location: 8401 Second Avenue Leeds, Alabama 35094

Permit No: 4-07-0290-08

Issuance Date: December 10, 2025
Expiration Date: December 9, 2030

Nature of Business: Portland Cement Manufacturing

Emissions Unit No.	Emissions Unit Description
001 & 002	Limestone Quarry
003, 004, & 034	Kiln Feed Storage and Handling
005	Preheater Rotary Kiln with Loesche Mill
006	Clinker Cooler
007, 008, 009, 010, 013, & 063	Clinker Handling
011, 012 & 014	No. 5, No. 6, & No. 7 Clinker Finish Grinding Ball Mills
015, 016 & 017	Rotary Packing Machine and Cement Transfer System
018, 019, 022 & 023	"B" Silo Storage and Loadout
020, 021, 024, 025, 026, 027, 028, 029, 030 & 031	"C" Silo Storage and Loadout
051, 061, 052, 053, 054, 055, 056, 057, 058, 059 & 060	"D" Silo Storage and Loadout
062 & 064	Emergency Generators

This Permit is issued pursuant to and is conditioned upon the compliance with the provisions of the Jefferson County Board of Health Air Pollution Control Rules and Regulations, the applicable requirements of the Clean Air Act implementation plan for Alabama approved or promulgated by the United States Environmental Protection Agency (EPA) through rulemaking under title I of the Clean Air Act (identified in 40 CFR 52, Subpart B) and other applicable requirements as defined in section 18.1.1(e) of the Jefferson County Board of Health Rules and Regulations, Section 18 of the Alabama Air Pollution Control Act of 1971, Act No. 769 (Regular Session, 1971), Section 22-28-16 of the Alabama Air Pollution Control Act as amended, Orders of the Jefferson County Board of Health, Orders of the Director of the Alabama Department of Environmental Management (ADEM), and any applicable local, state or federal Court Order. This Permit is subject to the accuracy of all information submitted relating to the permit application and to the conditions appended hereto. It is valid from the date of issuance until the expiration date and shall be posted or kept under file at the source location described above and shall be made readily available for inspection at any reasonable time to any and all persons who may request to see it. This Permit is not transferable.

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Pursuant to the Clean Air Act, conditions of this permit are federally enforceable by EPA. The Jefferson County Board of Health, ADEM and citizens in general. However, provisions that are not required by the Clean Air Act or under any of its applicable requirements, are considered to be Jefferson County provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate Sections of this Operating Permit and are specifically identified as not being federally enforceable.

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Jonathan Stanton, Director Environmental Health Services

Approved:

David Hicks, DO, MPH, FAAFP Health Officer



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In addition to compliance with Alabama Air Pollution Control Act Number 769 (Regular Session, 1971) and Act Number 612 (Regular Session, 1982) and with all applicable Air Pollution Control Rules and Regulations, the conditions which are listed below are hereby contained in and made a part of this permit. For each citation to a Jefferson County Board of Health regulation provided in connection with a permit condition (other than for those permit conditions that are specifically identified in the permit as not being federally enforceable), Appendix A to this permit identifies the corresponding ADEM regulation that has been approved by EPA as part of the Clean Air Act implementation plan for Alabama (identified in 40 CFR 52, Subpart B). The corresponding ADEM regulations, together with the cited Jefferson County Board of Health regulations, serve as the origin and authority for the associated permit term or condition.

#### **General Permit Conditions**

No.	Federally Enforceable General Permit Conditions	Regulations
	Definitions	
1.	For the purposes of this Major Source Operating Permit, the following terms will have the meanings ascribed to in this permit:  "12-Month Rolling Total" shall mean the total of monthly emissions calculations	1.3 8.26.1 8.27.1 18.7.1
	summed for a consecutive 12-month period and then compared to an annual emission or throughput limit to determine compliance.	60.2 63.1
	"30-Day Rolling Average Emission Limit" shall mean, for the purposes of Consent Decree 5:19-cv-05688, with respect to any kiln at the facility, the maximum allowable rate of emission of a specified air pollutant from such kiln(s), as applicable, and shall be expressed as pounds of such air pollutant emitted per ton of clinker produced. Compliance with the 30-day rolling average emission limit shall be determined by calculating the 30-day rolling average emission rate and comparing that with the 30-day rolling average emission limit. <i>Consent Decree</i> 5:19-cv-05688	63.1341 63.6675 64.1 241.2 Consent Decree 5:19-cv-05688
	"30-Day Rolling Average Emission Rate" shall mean, for the purposes of Consent Decree 5:19-cv-05688, with respect to each kiln at the facility, the rate of emission of NO <sub>x</sub> or SO <sub>2</sub> , respectively, expressed as pounds per ton of clinker produced at such kiln and calculated in accordance with the following procedure:	
	1. Sum the total pounds of the pollutant in question emitted from the kiln during an operating day and the previous twenty-nine (29) operating days, as measured pursuant to Section V.B (NOx Continuous Emission Monitoring Systems) and Section VI.C (SO2 Continuous Emission Monitoring Systems) of Consent Decree 5:19-cv-05688.	
	2. Sum the total tons of clinker produced by the kiln during the same operating day and previous twenty-nine (29) operating days.	
	3. Divide the total number of pounds of that pollutant emitted from the kiln in question during the thirty (30) operating days referred to above by the total tons of clinker produced at such kiln during the same thirty (30) operating days.	
	4. A new 30-day rolling average emission rate shall be calculated for each new operating day. Only emission data determined to be valid under 40 C.F.R. §60.13 or substituted data in accordance with Paragraphs 19 and 28 of Consent Decree 5:19-cv-05688 shall be included.	
	5. In calculating each 30-day rolling average emission rate, the total pounds of that pollutant emitted from a kiln during a specified period (operating day or 30-day period) shall include all emissions of that pollutant from the subject kiln that occur during the specified period, including emissions during each malfunction. Consent Decree 5:19-cv-05688	
	"40 CFR 51" is an acronym for Part 51 of Title 40 of the Code of Federal Regulations.	
	"40 CFR 52" is an acronym for Part 52 of Title 40 of the Code of Federal Regulations.	
	"40 CFR 59" is an acronym for Part 59 of Title 40 of the Code of Federal Regulations.	

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	"40 CFR 60" is an acronym for Part 60 of Title 40 of the Code of Federal Regulations.	
	"40 CFR 61" is an acronym for Part 61 of Title 40 of the Code of Federal Regulations.	
	"40 CFR 63" is an acronym for Part 63 of Title 40 of the Code of Federal Regulations.	
	"40 CFR 64" is an acronym for Part 64 of Title 40 of the Code of Federal Regulations.	
	"40 CFR 68" is an acronym for Part 68 of Title 40 of the Code of Federal Regulations.	
	"40 CFR 82" is an acronym for Part 82 of Title 40 of the Code of Federal Regulations.	
	"40 CFR 98" is an acronym for Part 98 of Title 40 of the Code of Federal Regulations.	
	"Act" means the Clean Air Act, as amended, 42 U.S.C. 7401, et seq.	
	"ADEM" means the Alabama Department of Environmental Management.	
	"Air Permit" shall mean any permit issued pursuant to Chapter 2 of the Rules and Regulations.	
	"APCD" means air pollution control device.	
	"Air Pollution Emergency" shall mean a situation in which metrological conditions and/or contaminant levels in the ambient air reach or exceed the levels which may cause imminent and substantial endangerment to health.	
	"Annual Rolling Total" shall be an equivalent phrase for "12-Month Rolling Total."	
	"Business Day" means any day, except for Saturday, Sunday, and federal holidays.  Consent Decree 5:19-cv-05688	
	"CAM" is an acronym for compliance assurance monitoring.	
	"CD Emissions Reductions" shall mean any emissions reductions that results from any projects, controls, or any other actions utilized to comply with Consent Decree 5:19-cv-05688. <i>Consent Decree 5:19-cv-05688</i>	
	"Capture system" means the equipment (including hoods, ducts, fans, etc.) used to contain, capture or transport a pollutant to a control device or an exhaust system.	
	"Carbon dioxide equivalent or CO <sub>2</sub> e" means the number of metric tons of CO <sub>2</sub> emissions with the same global warming potential as one metric ton of another greenhouse gas, and is calculated using Equation A-1 of 40 CFR 98.	
	"CEMS" or "Continuous Emissions Monitoring System" shall mean, for obligations involving NO <sub>x</sub> and SO <sub>2</sub> under Consent Decree 5:19-cv-05688, the total equipment and software required to sample and condition (if applicable), to analyze, and to provide a record of NO <sub>x</sub> and SO <sub>2</sub> emission rates, and the raw data necessary to support the reported emission rates, and that have been installed and calibrated in accordance with 40 C.F.R. §60.13 and 40 C.F.R. Part 60 Appendix B and Appendix F. <i>Consent Decree</i> 5:19-cv-05688	
	"CKD" is an acronym for clinker kiln dust.	
	"Clean cellulosic biomass" means those residuals that are akin to traditional cellulosic biomass, including, but not limited to: Agricultural and forest-derived biomass (e.g., green wood, forest thinnings, clean and unadulterated bark, sawdust, trim, tree harvesting residuals from logging and sawmill materials, hogged fuel, wood pellets, untreated wood pallets); urban wood (e.g., tree trimmings, stumps, and related forest-derived biomass from urban settings); corn stover and other biomass crops used specifically for the production of cellulosic biofuels (e.g., energy cane, other fast	
	growing grasses, byproducts of ethanol natural fermentation processes); bagasse and other crop residues (e.g., peanut shells, vines, orchard trees, hulls, seeds, spent grains,	

No.	Federally Enforceable General Permit Conditions	Regulations
	cotton byproducts, corn and peanut production residues, rice milling and grain elevator operation residues); wood collected from forest fire clearance activities, trees and clean wood found in disaster debris, clean biomass from land clearing operations, and clean construction and demolition wood. These fuels are not secondary materials or solid wastes unless discarded. Clean biomass is biomass that does not contain contaminants at concentrations not normally associated with virgin biomass materials. 40 CFR 241, Solid Wastes Used as Fuels or Ingredients in Combustion Units	5
	"Clinker" means the product of the process in which limestone and other materials are heated in the kiln and is then ground with gypsum and other materials to form cement. 40 CFR 63, Subpart LLL	
	"Clinker cooler" means equipment into which clinker product leaving the kiln is placed to be cooled by air supplied by a forced draft or natural draft supply system. 40 CFR 63, Subpart LLL	
	"CMS" is an acronym for continuous monitoring system.	
	"CO" is an acronym for carbon monoxide.	
	"COMS" is an acronym for continuous opacity monitoring system.	
	"Combustion Control" is the method used to maintain NOx emissions below a prescribed limitation through management of combustion parameters at the kiln. Consent Decree 5:19-cv-05688	
	"Commence" or "Commencement" of operation of a control technology shall mean, for the purposes of Consent Decree 5:19-cv-05688, to begin the introduction of the reagent employed by the control technology, as applicable to that technology, or when the technology is otherwise activated. <i>Consent Decree</i> 5:19-cv-05688	
	"Continuous monitor" means a device which continuously samples the regulated parameter specified in §63.1350 without interruption, evaluates the detector response at least once every 15 seconds, and computes and records the average value at least every 60 seconds, except during allowable periods of calibration and except as defined otherwise by the continuous emission monitoring system performance specifications in appendix B to 40 CFR 60. 40 CFR 63, Subpart LLL	
	"Continuous opacity monitoring system (COMS)" means a continuous monitoring system that measures the opacity of emissions. 40 CFR 63, Subpart A	
	"Conveying system" means a device for transporting materials from one piece of equipment or location to another location within a facility. Conveying systems include but are not limited to the following: feeders, belt conveyors, bucket elevators and pneumatic systems. 40 CFR 63, Subpart LLL	
	"Continuously Operate" or "Continuous Operation", for the purposes of Consent Decree 5:19-cv-05688, shall mean, except as provided below, that when a control technology is installed at a kiln, it shall be operated at all times of kiln operation, consistent with the technological limitations, manufacturers' specifications, and good engineering and maintenance practices for such Control Technology and the Kiln, except during:	
	<ol> <li>Malfunction of the control technology;</li> <li>Periods where the kiln is operating below the minimum temperature required for operation of the control technology, as specified in writing by the manufacturer or installation contractor (to include the permittee when it serves as manufacturer, installer or designer of the control technology);or</li> <li>For selective non-catalytic reduction system operation, detached plume events; provided, however, wherever a control technology involves the injection or</li> </ol>	

No.	Federally Enforceable General Permit Conditions	Regulations
	addition of reagent, then the reagent shall be injected or added as necessary to achieve the emissions limits referenced in Table 2 and Table 3 of Consent Decree 5:19-cv-05688. <i>Consent Decree</i> 5:19-cv-05688	J
	"Control Technology" shall mean those technologies specified in Sections V and VI of Consent Decree 5:19-cv-05688, which may include a Selective Non-Catalytic Reduction System; Wet or Dry Scrubbers; Combustion Controls; Kiln Inherent Scrubbing (including scrubbing in the inline raw mill); or a Lime Injection System. Consent Decree 5:19-cv-05688	
	"Conveying system transfer point" means a point where any material including but not limited to feed material, fuel, clinker or product, is transferred to or from a conveying system, or between separate parts of a conveying system. 40 CFR 63, Subpart LLL	
	"CPMS" is an acronym for continuous parametric monitoring system.	
	"Crusher" means a machine designed to reduce large rocks from the quarry into materials approximately the size of gravel. 40 CFR 63, Subpart LLL	
	"Day" or "calendar day" means a 24-hour period beginning at midnight, unless, for the purposes of Consent Decree 5:19-cv-05688, it is expressly stated to be a business day.	
	"Department" means the Jefferson County Department of Health.	
	"Deviation" means any instance in which the permittee fails to meet any requirement or obligation established by regulation, including but not limited to any emission limitation, operating limit, work practice standard, or any permit term or condition, or fails to meet any term or condition adopted to implement an applicable requirement, including but not limited to emission limitations during periods of startup, shutdown or malfunction.	
	"Dioxins and furans (D/F)" means tetra-, penta-, hexa-, hepta-, and octa-chlorinated dibenzo dioxins and furans. 40 CFR 63, Subpart LLL	
	"Effective Date" shall mean, for the purposes of Consent Decree 5:19-cv-05688, November 18, 2020. <i>Consent Decree 5:19-cv-05688</i>	
	"Emission limitation or standard" means any applicable requirement that constitutes an emission limitation, emission standard, standard of performance or means of emission limitation as defined under the Act.	
	<ol> <li>An emission limitation or standard may be expressed in terms of the pollutant, expressed either as a specific quantity, rate or concentration of emissions (e.g., pounds of SO<sub>2</sub> per hour, pounds of SO<sub>2</sub> per million British thermal units of fuel input, kilograms of VOC per liter of applied coating solids, or parts per million by volume of SO<sub>2</sub>) or as the relationship of uncontrolled to controlled emissions (e.g., percentage capture and destruction efficiency of VOC or percentage reduction of SO<sub>2</sub>).</li> <li>An emission limitation or standard may also be expressed either as a work practice, process or control device parameter, or other form of specific design, equipment, operational, or operation and maintenance requirement.</li> </ol>	
	3. For purposes of 40 CFR 64, an emission limitation or standard shall not include general operation requirements that an owner or operator may be required to meet, such as requirements to obtain a permit, to operate and maintain sources in accordance with good air pollution control practices, to develop and maintain a malfunction abatement plan, to keep records, submit reports, or conduct monitoring. 40 CFR §64.1	
	"Emission Limit" or "Emission Limits" shall mean, for the purposes of Consent Decree 5:19-cv-05688, shall mean the maximum allowable rate of emission of a specified air	

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	pollutant from a kiln as specified in Paragraph 12, Table 2 (NO <sub>x</sub> ) and Paragraph 20, Table 3 (SO <sub>2</sub> ) of Consent Decree 5:19-cv-05688. <i>Consent Decree 5:19-cv-05688</i>	
	"Emissions unit" means any part or activity of a stationary source that emits or has the potential to emit any regulated air pollutant or any pollutant listed under §112(b) of the Act.	
	"EPA" means the U.S. Environmental Protection Agency.	
	"Exceedance" shall mean a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of a percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring.	
	"Finish mill" means a roll crusher, ball and tube mill or other size reduction equipment used to grind clinker to a fine powder. Gypsum and other materials may be added to and blended with clinker in a finish mill. The finish mill also includes the air separator associated with the finish mill. 40 CFR 63, Subpart LLL	
	"Fuel-Burning Equipment" shall mean any equipment, device or contrivance and all appurtenances thereto, including ducts, breechings, fuel-feeding equipment, ash removal equipment, combustion controls, stacks and chimneys, used primarily, but not exclusively, to burn any type fuel for the purpose of indirect heating in which the material being heated is not contacted by and adds no substance to the products of combustion. <i>1.3</i>	
	"Fugitive Dust" shall mean solid air-borne particulate matter emitted from any source other than a flue or stack. $1.3$	
	"Fugitive emissions" means those emissions from a stationary source that could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening. Under §112 of the Clean Air Act, all fugitive emissions are to be considered in determining whether a stationary source is a major source. 40 CFR 63, Subpart A	
	"GHG" is an acronym for greenhouse gas.	
	"HAP" is an acronym for Hazardous Air Pollutant.	
	"Hazardous Air Pollutant" means any of the substances listed in Appendix D of the Rules and Regulations or §112(b) of the Clean Air Act. 40 CFR 63, Subpart A	
	"In-line coal mill" means a coal mill using kiln exhaust gases in their process. A coal mill with a heat source other than the kiln or a coal mill using exhaust gases from the clinker cooler is not an in-line coal mill. 40 CFR 63, Subpart LLL	
	"Kiln" means a device, including any associated preheater or precalciner devices, inline raw mills, inline coal mills or alkali bypasses that produces clinker by heating limestone and other materials for subsequent production of Portland cement. Because the inline raw mill and inline coal mill are considered an integral part of the kiln, for purposes of determining the appropriate emissions limit, the term kiln also applies to the exhaust of the inline raw mill and the inline coal mill. 40 CFR 63, Subpart LLL	
	"Kiln Operation" shall mean any period when any raw materials are fed into the Kiln or any combustion is occurring in the Kiln or Calciner burners. <i>Consent Decree</i> 5:19-cv-05688	
	"Lime Injection" or "Lime Injection System" shall mean a pollution control system that injects lime or another reagent that has been demonstrated as effective in reducing $SO_2$ emissions into the gas stream for the purpose of reducing $SO_2$ emissions (including but not limited to, Hydrated Lime (Ca(OH) <sub>2</sub> ), Soda Ash - Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ),	

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	Sodium Bicarbonate (NaHCO3), and Trona – Trisodium hydrogen dicarbonate dihydrate (Na <sub>2</sub> CO <sub>3</sub> ·NaHCO <sub>3</sub> ·2H <sub>2</sub> O)). <i>Consent Decree 5:19-cv-05688</i>	J
	"Malfunction" means any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. For the purposes of the Consent Decree, malfunction shall have the same meaning as defined at §60.2. 40 CFR 63, Subpart A, Consent Decree 5:19-cv-05688	
	"Modification" shall mean any physical change in, or change in the method of operation of, an affected source which increases the amount of any air contaminant (to which a rule or regulation applies) emitted by such source or which results in the emission of any air contaminant (to which a rule or regulation applies) not previously emitted, except that routine maintenance, repair, and replacement shall not be considered physical changes and the following shall not be considered a change in the method of operation: an increase in the production rate, an increase in hours of operation, or use of an alternate fuel or raw material.	
	"Monitoring" means the collection and use of measurement data or other information to control the operation of a process or pollution control device or to verify a work practice standard relative to assuring compliance with applicable requirements.  Monitoring is composed of four elements:	
	<ol> <li>Indicator(s) of performance—the parameter or parameters you measure or observe for demonstrating proper operation of the pollution control measures or compliance with the applicable emissions limitation or standard.</li> <li>Indicators of performance may include direct or predicted emissions measurements (including opacity), operational parametric values that correspond to process or control device (and capture system) efficiencies or emissions rates, and recorded findings of inspection of work practice activities, materials tracking, or design characteristics.</li> </ol>	
	b. Indicators may be expressed as a single maximum or minimum value, a function of process variables (for example, within a range of pressure drops), a particular operational or work practice status (for example, a damper position, completion of a waste recovery task, materials tracking),	
	or an interdependency between two or among more than two variables.  2. Measurement techniques—the means by which you gather and record information of or about the indicators of performance.  a. The components of the measurement technique include the detector type, location and installation specifications, inspection procedures, and quality assurance and quality control measures.  b. Examples of measurement techniques include continuous emission monitoring systems, continuous opacity monitoring systems, continuous parametric monitoring systems, and manual inspections that include making records of process conditions or work practices.	
	<ul> <li>3. Monitoring frequency—the number of times you obtain and record monitoring data over a specified time interval.</li> <li>a. Examples of monitoring frequencies include at least four points equally spaced for each hour for continuous emissions or parametric monitoring systems, at least every 10 seconds for continuous opacity monitoring systems, and at least once per operating day (or week, month, etc.) for work practice or design inspections.</li> </ul>	

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	<ul> <li>4. Averaging time—the period over which you average and use data to verify proper operation of the pollution control approach or compliance with the emissions limitation or standard.</li> <li>a. Examples of averaging time include a 3-hour average in units of the emissions limitation, a 30-day rolling average emissions value, a daily average of a control device operational parametric range, and an instantaneous alarm. 40 CFR 63, Subpart A</li> </ul>	
Ì	"NAAQS" is an acronym for "National Ambient Air Quality Standards."	
	"NESHAP" is an acronym for "National Emission Standards for Hazardous Air Pollutants."	
	"New Source Review" (NSR) permitting means a system of evaluating the impact of any significant modification made at a major source and establishing permitting conditions to prevent the modification from causing or contributing to a violation of the NAAQS or consuming more than the allowed increment. These permitting provisions are located in Parts 2.4 and 2.5 of the Rules and Regulations.	
	"NO <sub>X</sub> " is an acronym for nitrogen oxides.	
	"NSPS" is any acronym for "New Source Performance Standards."	
	"Opacity" shall mean the degree to which emissions reduce the transmission of light and obscure the view of the background. For continuous opacity monitoring systems, opacity means the fraction of incident light that is attenuated by an optical medium. 40 CFR 63, Subpart A	
	"Open clinker storage pile" means a clinker storage pile on the ground for more than three days that is not completely enclosed in a building or structure. 40 CFR 63, Subpart LLL	
	"Operating day" means, for the purposes of 40 CFR 63, Subpart LLL, any 24-hour period beginning at 12:00 midnight during which the kiln produces any amount of clinker. For calculating the 30-day rolling average emissions, kiln operating days do not include the hours of operation during startup or shutdown. 40 CFR 63, Subpart LLL	
	"Operating day" shall mean, for the purposes of Consent Decree 5:19-cv-05688, any day on which kiln operation has occurred. <i>Consent Decree</i> 5:19-cv-05688	
	"Operating Permit" shall mean any permit issued pursuant to Chapter 18 of the Rules and Regulations.	
	"Permittee" means the holder of an operating permit issued by the Department.	
	"Performance audit" means a procedure to analyze blind samples, the content of which is known by the Administrator, simultaneously with the analysis of performance test samples in order to provide a measure of test data quality. 40 CFR 63, Subpart A	
	"Performance evaluation" means the conduct of relative accuracy testing, calibration error testing, and other measurements used in validating the continuous monitoring system data. 40 CFR 63, Subpart A	
	"Performance test" means the collection of data resulting from the execution of a test method (usually three emission test runs) used to demonstrate compliance with a relevant emission standard as specified in the performance test section of the relevant standard. 40 CFR 63, Subpart A	
	"PM" is an acronym for particulate matter.	
	" $PM_{10}$ " is an acronym for particulate matter of less than 10 microns.	
	"PM <sub>2.5</sub> " is an acronym for particulate matter of less than 2.5 microns.	

No.	Federally Enforceable General Permit Conditions	Regulations
	"Process" shall mean any action, operation, or treatment of materials, including handling and storage thereof, which may cause discharge of an air contaminant, or contaminants, into the atmosphere, but excluding fuel burning and refuse burning.	
	"Process Weight" shall mean the total weight in pounds of all materials introduced into any specific process which may cause any discharge into the atmosphere.	
	"Process Weight per Hour" shall mean the total weight of all materials introduced into any specific process that may cause any discharge of particulate matter. Solid fuels charged will be considered as part of the process weight, but liquid and gaseous fuels and combustion air will not. For a cyclic or batch operation, the process weight per hour will be derived by dividing the total process weight by the number of hours in one complete operation from the beginning of any given process to the completion thereof, excluding any time during which the equipment is idle. For a continuous operation, the process weight per hour will be derived by dividing the process weight for a typical period of time by that time period.	
	"PSD" is an acronym for "Prevention of Significant Deterioration" permitting under Chapter 2.4 of the Rules and Regulations.	
	"RATA" is an acronym for relative accuracy test audit.	
	"Raw material dryer" means an impact dryer, drum dryer, paddle-equipped rapid dryer, air separator, or other equipment used to reduce the moisture content of feed or other materials. 40 CFR 63, Subpart LLL	
	"Raw mill" means a ball and tube mill, vertical roller mill or other size reduction equipment, that is not part of an in-line kiln/raw mill, used to grind feed to the appropriate size. Moisture may be added or removed from the feed during the grinding operation. If the raw mill is used to remove moisture from feed materials, it is also, by definition, a raw material dryer. The raw mill also includes the air separator associated with the raw mill. 40 CFR 63, Subpart LLL	
	"Responsible official" means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and the delegation of authority to such representatives is approved in advance by the Department.	
	"Retire" or "Retirement" shall mean, with respect to any kiln, to permanently shut down the kiln and to file an application in accordance with the Department to remove permanently any legal authorization for further operation of the kiln. <i>Consent Decree</i> 5:19-cv-05688	
	"RICE" is an acronym for reciprocating internal combustion engine.	
	"Rolling average" means the weighted average of all data, meeting QA/QC requirements or otherwise normalized, collected during the applicable averaging period. The period of a rolling average stipulates the frequency of data averaging and reporting.	
	<ol> <li>To demonstrate compliance with an operating parameter a 30-day rolling average period requires calculation of a new average value each operating day and shall include the average of all the hourly averages of the specific operating parameter.</li> </ol>	

No.	Federally Enforceable General Permit Conditions	Regulations
	<ol> <li>For demonstration of compliance with an emissions limit based on pollutant concentration a 30-day rolling average is comprised of the average of all the hourly average concentrations over the previous 30 operating days.</li> <li>For demonstration of compliance with an emissions limit based on lbs-pollutant per production unit the 30-day rolling average is calculated by summing the hourly mass emissions over the previous 30 operating days, then dividing that sum by the total production during the same period. 40 CFR 63, Subpart LLL</li> </ol>	
	"Rules and Regulations" means the Jefferson County Board of Health Air Pollution Control Rules and Regulations.	
	"Run" means one of a series of emission or other measurements needed to determine emissions for a representative operating period or cycle as specified in 40 CFR 63.	
	"Run average" means the average of the recorded parameter values for a run. 40 CFR 63, Subpart LLL	
	"Shutdown" means the cessation of kiln operation. Shutdown begins when feed to the kiln is halted and ends when continuous kiln rotation ceases. 40 CFR 63, Subpart LLL	
	"SIP" is an acronym for "State Implementation Plan" pursuant to 40 CFR 52.	
	"Six-Minute Average" shall be determined by calculating the arithmetic mean of twenty-four (24) consecutive opacity observations, taken at intervals of fifteen (15) seconds.	
	"Selective Non-Catalytic Reduction" or "SNCR" shall mean a pollution control system that injects ammonia, monomethylamine, cyanuric acid, and/or urea into the gas stream without the use of a catalyst for the purpose of reducing NOx emissions. <i>Consent Decree</i> 5:19-cv-05688	
	"SO <sub>2</sub> " is an acronym for sulfur dioxide.	
	"Sorbent" means activated carbon, lime, or any other type of material injected into kiln exhaust for the purposes of capturing and removing any hazardous air pollutant. 40 CFR 63, Subpart LLL	
	"Source" means any building, structure, facility, installation, article, machine, equipment, device, or other contrivance which emits or may emit any air contaminant. Any activity which utilizes abrasives or chemicals for cleaning or any other purpose (such as cleaning the exterior of buildings) which emits air contaminants shall be considered a source. <i>1.3</i>	
	"Standard conditions" means a temperature of 293 K (68 °F) and a pressure of 101.3 kilopascals (29.92 in. Hg). 40 CFR 63, Subpart A, 1.3	
	"Startup" means the time from when a shutdown kiln first begins firing fuel until it begins producing clinker. Startup begins when a shutdown kiln turns on the induced draft fan and begins firing fuel in the main burner. Startup ends when feed is being continuously introduced into the kiln for at least 120 minutes or when the feed rate exceeds 60 percent of the kiln design limitation rate, whichever occurs first. 40 CFR 63, Subpart LLL	
	"Stationary Source" means any building, structure, facility or installation that emits or may emit any regulated pollutant as defined in Part 18.1 of the Rules and Regulations or any pollutant listed in Appendix D of the Rules and Regulations.	
	"Stationary source" means any building, structure, facility, or installation which emits or may emit any air pollutant which has been designated as hazardous by the Administrator. <i>CFR</i> 63, <i>Subpart</i> A	

No.		Federally Enforceable General Permit Conditions	Regulations
	Cease K plants, s permitte (Tempo Decree : "TEQ" i	orary Cessation," "Temporary Cessation of Kiln Operation" or "Temporarily Kiln Operation," except for planned and/or maintenance or repair outages at shall mean the period when a kiln is not in a state of kiln operation and the see has provided the required notice pursuant to Paragraph 37 of Section VIII rary Cessation of Kiln Operation) of Consent Decree 5:19-cv-05688. Consent 5:19-cv-05688  means the international method of expressing toxicity equivalents for dioxins	
	with Ex (CDDs a (TEFs)	ans as defined in U.S. EPA, Interim Procedures for Estimating Risks Associated posures to Mixtures of Chlorinated Dibenzo-p-dioxins and -dibenzofurans and CDFs) and 1989 Update, March 1989. The 1989 Toxic Equivalency Factors used to determine the dioxin and furan TEQs are listed in Table 2 to subpart Part 63. 40 CFR 63, Subpart LLL	
	the cond xylene, Method	organic HAP" means, for the purposes of 40 CFR 63, Subpart LLL, the sum of centrations of compounds of formaldehyde, benzene, toluene, styrene, m-p-xylene, o-xylene, acetaldehyde, and naphthalene as measured by EPA Test 320 or Method 18 of appendix A to this part or ASTM D6348-031 or a action of these methods, as appropriate.	
	1.	If measurement results for any pollutant are reported as below the method detection level (e.g., laboratory analytical results for one or more sample components are below the method defined analytical detection level), you must use the method detection level as the measured emissions level for that pollutant in calculating the total organic HAP value.	
	2.	The measured result for a multiple component analysis (e.g., analytical values for multiple Method 18 fractions) may include a combination of method detection level data and analytical data reported above the method detection level.	
	3.	The owner or operator of an affected source may request the use of other test methods to make this determination under paragraphs 63.7(e)(2)(ii) and (f).	
	4.	When using ASTM D6348-03, the following conditions must be met: a. The test plan preparation and implementation in the Annexes to ASTM D6348-03, Sections A1 through A8 are mandatory;	
		<ul><li>b. For ASTM D6348-03 Annex A5 (Analyte Spiking Technique), the percent R must be determined for each target analyte (see Equation A5.5);</li><li>c. For the ASTM D6348-03 test data to be acceptable for a target analyte</li></ul>	
		<ul> <li>percent R must be 70 percent ≥R ≤130 percent; and</li> <li>d. The percent R value for each compound must be reported in the test report and all field measurements corrected with the calculated percent R value for that compound using the following equation: Reported Result = The measured concentration in the stack divided by the calculated percent R value and then the whole term multiplied by 100. 40 CFR 63, Subpart LLL</li> </ul>	
		enclosed conveying system transfer point" means a conveying system transfer at is enclosed on all sides, top, and bottom. 40 CFR 63, Subpart LLL	
	above th	e emission" means the observation of an emission of opacity or optical density ne threshold of vision. 40 CFR 63, Subpart A	
		is an acronym for volatile organic compound.	
	monoxi	e Organic Compound" means any compound of carbon excluding carbon de, carbon dioxide, carbonic acid, metallic carbides or carbonates, and tum carbonate, which participates in atmospheric photochemical reactions. This	

No.	Federally Enforceable General Permit Conditions	Regulations
	includes any such organic compound other than those listed under Part 1.3 of the Rules and Regulations and/or under 40 CFR §51.100(s)(1).	
	In addition, the individual definitions as specified in each applicable rule, regulation, or standard shall be utilized where applicable.	
	General Conditions	1
2.	Basis for Permit	AL Act 612
	This Operating Permit is issued based on provisions contained in all existing Jefferson County Board of Health Air Pollution Control Rules and Regulations (hereinafter called Rules and Regulations in this permit). In the event amendments, revisions or additions are made to these Rules and Regulations, it shall be the responsibility of the permit holder (hereinafter called the permittee in this permit) to comply with such new Rules and Regulations. Additions and revisions to the conditions in this Operating Permit will be made by the Jefferson County Department of Health (hereinafter called the Department), if necessary, to assure that the Rules and Regulations are not violated.	AL Act 769
3.	Authority Nothing in this Operating Permit or conditions appended thereto shall negate any authority granted to this Department or the Health Officer pursuant to Alabama Air Pollution Control Act No. 769 (Regular Session, 1971) and Act No. 612 (Regular Session, 1982) or any regulations promulgated thereunder.	AL Act 612 AL Act 769
4.	Acceptance of Permit  The permittee is required to bring the operation of a source within the standards of Paragraph 18.2.8(a) of the Rules and Regulations. Commencing construction or operation of the source shall be deemed acceptance of all conditions specified. A Title V Operating Permit with revised conditions may be issued upon receipt of a new application if the permittee demonstrates that the source can operate within the standard of Paragraph 18.2.8(a) of the Rules and Regulations under the revised conditions.	18.2.4
5.	<ul> <li>Compliance With Existing and Future Regulations</li> <li>A. The permittee shall comply with all conditions of the Rules and Regulations.</li> <li>B. The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.</li> <li>C. The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit, and shall follow any more detailed schedule of compliance set forth in the applicable requirement or unit specific permit requirements.</li> <li>D. The permittee shall be subject to any future MACT standards from the effective date as published by EPA and shall comply with the rule by the compliance date.</li> </ul>	18.5.6 18.4.8(h) 18.7.3 18.7.6
6.	Noncompliance The permittee shall comply with all terms and conditions of the permit. Noncompliance with any term or condition of a permit will constitute a violation of the Act and the Rules and Regulations and may result in enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.	70.6(a)(6)(i) 18.5.6
7.	Compliance Defense The permittee shall not use as a defense in an enforcement action, that maintaining compliance with permit conditions would have required halting or reducing the permitted activity.	18.5.7
8.	Credible Evidence Any credible evidence or information relevant to whether a source may have been in compliance with applicable requirements can be used to establish whether or a not an owner or operator has violated or is in violation of any rule or standard in the Rules and Regulations and/or any applicable provisions of 40 CFR 60 or 40 CFR 61.	1.18 60.11(g) 61.12(e)

No.	Federally Enforceable General Permit Conditions	Regulations
9.	Circumvention	1.15
•	No person shall cause or permit the installation or use of any device or any means	60.12
	which, without resulting in reduction in the total amount of air contaminant emitted,	61.19
	conceals or dilutes any emission of air contaminants which would otherwise violate the	63.4(b)
	Rules and Regulations.	03.4(0)
10.	Bypass of Control Equipment Prohibited	18.2.4
10.	Except as otherwise provided in this permit, the permittee shall not bypass, without	10.2.4
	prior approval from this Department, any air pollution control device. The permittee	
	shall not shut down any air pollution control device unless such shutdown is	
	accompanied by the corresponding shutdown of the respective source which the device	
	is intended to control.	
11.	Shutdown of Control Equipment	1.12.1
11.	In the case of shutdown of air pollution control equipment for scheduled maintenance,	1.12.1
	the intent shall be reported to this Department at least 24 hours prior to the planned	
	shutdown unless the scheduled shutdown is accompanied with the shutdown of the	
	source being controlled. The report shall contain the information listed in Section	
10	1.12.1.	10.2.4
12.	Maintenance of Controls	18.2.4
	A. The permittee shall equip each fabric filter particulate matter control device with a	18.5.3(a)(2)
	pressure differential measuring device to measure the pressure drop across the	
	filter media in the control device. The device shall be installed in a location which	
	is easily accessible for inspection by Department personnel.	
	B. All air pollution control devices and capture systems for which this permit is issued	
	shall be maintained and operated at all times in accordance with the manufacturer's	
	specifications or alternative procedures approved by the Department 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 emissions of	
	air contaminants shall be maintained near the source and provided to the	
	Department upon request.	
	C. The permittee shall conduct routine inspections on all required control equipment.	
	All inspection results and repair work performed on the pollution control device	
	shall be recorded. These records shall be kept in a permanent form suitable for	
	inspection.	
13.	Nothing in this Operating Permit shall alter or affect the following:	18.10.3
	A. The provisions of §303 of the Act (emergency orders), including the authority of	
	the Administrator under that section;	
	B. The liability of an owner or operator of a source for any violation of applicable	
	requirements prior to or at the time of permit issuance;	
	C. The applicable requirements of the acid rain program, consistent with §408(a) of	
	the Act; or	
	D. The ability of EPA to obtain information from a source pursuant to §114 of the	
	Act.	
14.	Additional Information and Corrected Information	18.4.7
	The permittee shall submit any additional information to the Department to supplement	63.9(j)
	or correct an application promptly after becoming aware of the need for additional or	
	corrected information. Also, the permittee shall submit additional information	
	concerning any new requirements which have become applicable after a complete	
	application has been filed but before a draft permit is released. Any change in the	
	information already provided pursuant to 40 CFR 63 shall be provided in writing within	
	15 calendar days after the change.	
15.	Display and Availability of Permit	18.2.2
	The permittee shall keep this Operating Permit under file or on display at all times at	
	the site where the source is located and shall make the permit available for inspection	
	by any and all persons who may request to see it.	
	by any and an persons who may request to see it.	

No.	Federally Enforceable General Permit Conditions	Regulations
16.	Payment of Fees	18.5.11
	The permittee must have paid all fees required by the Rules and Regulations or the	16.1
	Operating Permit is not valid. Payment of operating permit fees required under Chapter	16.4
	16 of the Rules and Regulations shall be made on or before the date specified under	16.5
	Section 16.5.1 of the Rules and Regulations of each year. Failure to make payment of	
	fees within 30 days of the specified date shall cause the assessment of a late fee of 3%	
	(of the original fee) per month or fraction thereof.	
17.	Transfer	18.2.6
	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 Subparagraph 18.13.1(a)(5) of the Rules and Regulations.	
18.	New Air Pollution Sources and Changes to Existing Units	1.5.15
10.	A new permit application must be made for new sources, replacements, alterations or	60.7(a)(4)
	design changes which may result in the issuance of, or an increase in the issuance of,	63.5
	air contaminants, or the use of which may eliminate or reduce or control the issuance of	03.5
	air contaminants. For any new source or modification of an existing source subject to	
	40 CFR 63, the permittee shall submit an application as required by 63.5.	
19.	Construction Not In Accordance with Applications	18.2.8(e)
19.	If the source permitted herein has not been constructed in accordance with the	16.2.6(C)
	Operating Permit application and if the changes noted are of a substantial nature in that	
	the amount of air contaminants emitted by the source may be increased or in that the	
	effect is unknown, then the Operating Permit shall be revoked. No further application	
	for an Operating Permit shall be accepted until the source has been reconstructed in	
	accordance with the Operating Permit or until the permittee has proven to the	
	Department that the change will not cause an increase in the emission of air contaminants.	
20.		18.4.3
20.	Expiration  A source or right to approximate shall terminate upon the expiration of this Operating Powerity	18.5.2
	A source's right to operate shall terminate upon the expiration of this Operating Permit unless a timely complete renewal application has been submitted at least 6 months, but	
		18.12.2(b)
	not more than 18 months before the date of expiration or the Department has taken final	
	action approving the source's application for renewal by the expiration date. The	
21	expiration date of this Operating Permit is printed on the first page of this permit.	10.2.0
21.	Revocation	18.2.9
	This Operating Permit may be revoked for any of the following reasons:	
	A. Failure to comply with any conditions of the permit;	
	B. Failure to establish and maintain such records, make such reports, install, use and	
	maintain such monitoring equipment or methods; and sample such emissions in	
	accordance with such methods at such locations, intervals and procedures as may	
	be prescribed in accordance with Section 1.9.2 of the Rules and Regulations;	
	be prescribed in accordance with Section 1.9.2 of the Rules and Regulations; C. Failure to comply with any provisions of any Department administrative order	
	<ul><li>be prescribed in accordance with Section 1.9.2 of the Rules and Regulations;</li><li>C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility;</li></ul>	
	<ul> <li>be prescribed in accordance with Section 1.9.2 of the Rules and Regulations;</li> <li>C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility;</li> <li>D. Failure to allow entry and inspections by properly identified Department</li> </ul>	
	<ul> <li>be prescribed in accordance with Section 1.9.2 of the Rules and Regulations;</li> <li>C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility;</li> <li>D. Failure to allow entry and inspections by properly identified Department personnel;</li> </ul>	
	<ul> <li>be prescribed in accordance with Section 1.9.2 of the Rules and Regulations;</li> <li>C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility;</li> <li>D. Failure to allow entry and inspections by properly identified Department personnel;</li> <li>E. Failure to comply with the Rules and Regulations; or</li> </ul>	
	<ul> <li>be prescribed in accordance with Section 1.9.2 of the Rules and Regulations;</li> <li>C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility;</li> <li>D. Failure to allow entry and inspections by properly identified Department personnel;</li> </ul>	
	<ul> <li>be prescribed in accordance with Section 1.9.2 of the Rules and Regulations;</li> <li>C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility;</li> <li>D. Failure to allow entry and inspections by properly identified Department personnel;</li> <li>E. Failure to comply with the Rules and Regulations; or</li> </ul>	
	<ul> <li>be prescribed in accordance with Section 1.9.2 of the Rules and Regulations;</li> <li>C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility;</li> <li>D. Failure to allow entry and inspections by properly identified Department personnel;</li> <li>E. Failure to comply with the Rules and Regulations; or</li> <li>F. For any other cause, after a hearing which establishes, in the judgment of the</li> </ul>	
22.	<ul> <li>be prescribed in accordance with Section 1.9.2 of the Rules and Regulations;</li> <li>C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility;</li> <li>D. Failure to allow entry and inspections by properly identified Department personnel;</li> <li>E. Failure to comply with the Rules and Regulations; or</li> <li>F. For any other cause, after a hearing which establishes, in the judgment of the Department, that continuance of the permit is not consistent with the purpose of the</li> </ul>	18.5.5
22.	<ul> <li>be prescribed in accordance with Section 1.9.2 of the Rules and Regulations;</li> <li>C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility;</li> <li>D. Failure to allow entry and inspections by properly identified Department personnel;</li> <li>E. Failure to comply with the Rules and Regulations; or</li> <li>F. For any other cause, after a hearing which establishes, in the judgment of the Department, that continuance of the permit is not consistent with the purpose of the Act or Rules and Regulations.</li> </ul>	18.5.5
22.	<ul> <li>be prescribed in accordance with Section 1.9.2 of the Rules and Regulations;</li> <li>C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility;</li> <li>D. Failure to allow entry and inspections by properly identified Department personnel;</li> <li>E. Failure to comply with the Rules and Regulations; or</li> <li>F. For any other cause, after a hearing which establishes, in the judgment of the Department, that continuance of the permit is not consistent with the purpose of the Act or Rules and Regulations.</li> <li>Severability</li> <li>In case of legal challenge to any portion of this Operating Permit, the remainder of the</li> </ul>	18.5.5
	<ul> <li>be prescribed in accordance with Section 1.9.2 of the Rules and Regulations;</li> <li>C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility;</li> <li>D. Failure to allow entry and inspections by properly identified Department personnel;</li> <li>E. Failure to comply with the Rules and Regulations; or</li> <li>F. For any other cause, after a hearing which establishes, in the judgment of the Department, that continuance of the permit is not consistent with the purpose of the Act or Rules and Regulations.</li> <li>Severability</li> <li>In case of legal challenge to any portion of this Operating Permit, the remainder of the permit conditions shall continue in force.</li> </ul>	
22.	<ul> <li>be prescribed in accordance with Section 1.9.2 of the Rules and Regulations;</li> <li>C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility;</li> <li>D. Failure to allow entry and inspections by properly identified Department personnel;</li> <li>E. Failure to comply with the Rules and Regulations; or</li> <li>F. For any other cause, after a hearing which establishes, in the judgment of the Department, that continuance of the permit is not consistent with the purpose of the Act or Rules and Regulations.</li> <li>Severability</li> <li>In case of legal challenge to any portion of this Operating Permit, the remainder of the</li> </ul>	18.5.5 18.13.5

No.	Federally Enforceable General Permit Conditions	Regulations
	A. Additional applicable requirements under the Clean Air Act become applicable to	
	the permittee with a remaining permit term of 3 or more years. Such a reopening	
	shall be completed no later than 18 months after promulgation of the applicable	
	requirements. No such reopening is required if the effective date of the requirement	
	is later than the date on which this permit is due to expire.	
	B. Additional requirements (including excess emissions requirements) become	
	applicable to an affected source under the acid rain program. Upon approval by the	
	Administrator, excess emissions offset plans shall be deemed to be incorporated	
	into this permit.	
	C. The Department, ADEM or EPA determines that this permit contains a material	
	mistake or that inaccurate statements were made in establishing the emissions	
	standards or other terms or conditions of this permit.	
	D. The Administrator, ADEM or the Department determines that this permit must be	
	revised or revoked to assure compliance with the applicable requirements.	
24.	Changes or Termination for Cause - No Stay of Permit Conditions	18.5.8
	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 a planned change or anticipated	
	noncompliance will not stay any permit condition.	
25.	Requests for Information	18.5.10
	The permittee shall furnish to the Department within 30 days, or for such other	70.6(a)(6)(v)
	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 the permit or to determine compliance. Upon receiving a	
	specific request, the permittee shall also furnish to the Department copies of records	
	required to be kept by the permit. For information claimed to be confidential, the	
	permittee may furnish such records directly to the Administrator along with a claim of	
26	confidentiality.	1.0
26.	Entry and Inspections The powerities shall allow the Department ADEM EDA or outhorized representative	1.8 18.7.2
	The permittee shall allow the Department, ADEM, EPA or authorized representative,	
	upon presentation of credentials and other documents that may be required by law, to conduct the following:	18.2.9(d)
	A. Enter upon the permittee's premises where a source is located or emissions related	
	activity is conducted or where records are kept pursuant to the permit conditions;	
	B. Review and/or copy at reasonable times any records kept pursuant to the permit	
	conditions;	
	C. Inspect at reasonable times any facilities, equipment (including monitoring and air	
	pollution control equipment), practices or operations required by the permit; and	
	D. Sample or monitor at reasonable times substances or parameters for the purpose of	
	assuring compliance with the permit or other applicable requirements.	
	Denial of access upon proper identification is grounds for permit revocation.	
27.	Flexibility Changes	18.13.2
	Certain changes (per §502 (b)(10) of the Act) can be made to this Operating Permit	
	without a revision if no modification as defined in the Rules and Regulations would	
	occur and the changes do not exceed the emissions allowed under this permit provided	
	that written notification is sent to the Department and EPA at least 7 days before the	
	change is made. The written notification shall describe the proposed change, the date of	
	the change, any change in emissions, and any term or condition of the permit which is	
	no longer valid due to the change.	
28.	Minor Permit Modifications	18.13.3
-	Minor permit modification procedures may be used only for those permit modifications	
	that:	
	A. Do not violate any applicable requirement;	

No.	Federally Enforceable General Permit Conditions	Regulations
	B. Do not involve significant changes to existing monitoring, reporting, or record	
	keeping requirements in the permit;	
	C. Do not require or change a case-by-case determination of an emission limitation or	
	other standard, or a source-specific determination for temporary sources of ambient	
	impacts, or a visibility or increment analysis;	
	D. Do not seek to establish or change a permit term or condition for which there is no	
	corresponding underlying applicable requirement and that the source has assumed	
	to avoid an applicable requirement to which the source would otherwise be subject.	
	Such terms and conditions include:	
	1. A federally enforceable emissions cap assumed to avoid classification as a	
	modification under any provision of Title I of the Act; and	
	2. An alternative emissions limit approved pursuant to regulations promulgated	
	under §112(i)(5) of the Act;	
	E. Are not modifications under any provision of title I of the Act; and	
	F. Are not required by Part 18.12 of this Chapter to be processed as a significant	
	modification.	
	An application requesting the use of minor permit modification procedures shall meet	
	the requirements of Section 18.4.8 relative to the modification and shall include the	
	information listed at Paragraph 18.13.3(b). If the Department notifies the source that	
	the modification does not qualify as a minor modification within 10 days after	
	receiving the application, then the source shall apply for the change as a significant	
	modification. Ten days after the application has been submitted to the Department, the	
	source may make the change for which they applied unless the change does not qualify	
	as a minor modification. After the source makes the change and until the Department	
	takes final action on the permit application, the source must comply with both the	
	applicable requirements governing the change and the proposed permit terms and	
	conditions. During this time period, the source need not comply with the existing	
	permit terms and conditions it seeks to modify. However, if the source fails to comply	
	with its proposed permit terms and conditions during this time period, the existing	
	permit terms and conditions it seeks to modify may be enforced against it. A permit	
	shield granted under Part 18.10 shall not extend to minor permit modifications. The	
	Department may not issue a final permit modification until after EPA's 45-day review	
	period or until EPA has notified the Department that EPA will not object to issuance of	
	the permit modification, whichever is first.	
29.	Significant Modifications	18.13.4
	Modifications that are significant modifications under the new source review permitting	
	provisions of Part 2.4 (Prevention of Significant Deterioration) or Part 2.5	
	(Nonattainment Areas) regulations, are modifications under the NSPS or NESHAPS	
	regulations, or otherwise do not meet the requirements for minor permit modifications	
	from Section 18.13.3 of the Rules and Regulations must be incorporated in the	
	Operating Permit using the requirements for sources initially applying for an Operating	
	Permit, including those for applications, public participation, review by affected States,	
	review by ADEM, and review by EPA, as described in Parts 18.4 and 18.15 of the	
2.0	Rules and Regulations.	10.17
30.	Off-Permit Changes	18.14
	Any change which is not addressed or prohibited in the federally enforceable terms and	
	conditions of the permit may be designated by the owner or operator as an off-permit	
	change, and may be made without revision to the federally enforceable terms and	
	conditions of the operating permit, provided that the change:	
	A. Meets all applicable requirements;	
	B. Does not violate any federally enforceable permit term or condition;	
	C. Is not subject to any requirement or standard under title IV of the Clean Air Act;	
	and	
	D. Is not a modification under title I.	

No.	Federally Enforceable General Permit Conditions	Regulations
	The permittee must comply with all applicable state permitting and preconstruction	
	review requirements. Any application pertaining to a change designated by the	
	applicant as an off-permit change shall be submitted by the applicant to EPA in	
	fulfillment of the obligation to provide written notice, provided, that no change meeting	
	the criteria for an insignificant activity or trivial activity is subject to the procedures set forth in this condition.	
31.	Property Rights and Privileges	18.5.9
31.	No property rights of any sort or any exclusive privilege are conveyed through the	16.3.9
	issuance of this Operating Permit.	
32.	Economic Incentives	18.5.12
32.	No permit revision shall be required under any approved economic incentives,	10.5.12
	marketable permit emissions trading and other similar programs or processes for	
	changes that are provided for in the Operating Permit.	
33.	Emission Reduction Plan	18.2.8(b)
	Upon notification by this Department, the permittee shall submit an Air Pollution	, ,
	Emission Reduction Plan in a format approved by this Department concerning air	
	contaminant emissions reductions to be taken during declared air pollution episodes.	
34.	Obnoxious Odors	6.2.3
	This Operating Permit is issued with the condition that should obnoxious odors arising	
	from the plant operations be verified by Department inspectors, measures to abate the	
	odorous emissions shall be taken upon determination by this Department that these	
	measures are technically and economically feasible.	
35.	Title IV Requirements (Acid Rain Program)	18.5.1(b)
	Where an applicable requirement of the Rules and Regulations is more stringent than	18.5.4
	an applicable requirement of regulations promulgated under Title IV of the Act (the	
	acid rain program), both provisions shall be incorporated into the permit and shall be	
	enforceable by the Administrator. Emissions exceeding any allowances that the	
	permittee lawfully holds under title IV of the Act or the regulations promulgated	
	thereunder are prohibited. No permit revision shall be required for increases in	
	emissions that are authorized by allowances acquired pursuant to the acid rain program,	
	provided that such increases do not require a permit revision under any other applicable	
	requirement. No limit shall be placed on the number of allowances held by the	
	permittee, however, allowances may not be used as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according	
	to the procedures established in the regulations promulgated pursuant to Title IV of the	
	Act.	
36.	Title VI Requirements (Refrigerants)	40 CFR 82
50.	Any facility having appliances or refrigeration equipment, including air conditioning	18.1.1(e)(10)
	equipment, which use Class I or Class II ozone-depleting substances such as	18.1.1(w)(4)
	chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR 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 82, Subpart F.	
	A. No person shall knowingly vent or otherwise release any Class I or Class II	
	substance into the environment during the repair, servicing, maintenance, or	
	disposal of any such device except as provided in 40 CFR 82, Subpart F.	
	B. The responsible official shall comply with all reporting and recordkeeping	
	requirements of 40 CFR §82.166. Reports shall be submitted to the U.S. EPA and	
	the Department as required.	

No.	Federally Enforceable General Permit Conditions	Regulations
37.	Asbestos Demolition and Renovation	40 CFR 61
	Demolition and renovation activities at this facility are subject to the National Emission Standard for Asbestos, 40 CFR 61, Subpart M. To determine the applicable requirements of the Standard, the permittee must thoroughly inspect the affected part of the facility where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos-containing materials, prior to the commencement of the demolition or renovation operation. The permittee shall comply with all applicable sections of the Standard, including	14.2.12
	notification requirements, emission control and waste disposal procedures. The permittee shall also ensure that anyone performing asbestos-related work at the facility is trained and certified according to the Alabama Department of Environmental Management's regulations for Asbestos Contractor Certification.	
38.	Prevention of Accidental Releases The permittee shall comply with the requirements of §112(r) of the Act and 40 CFR 68 to prevent accidental releases of any substance listed pursuant to §112(r) or any other extremely hazardous substance.	112(r) 40 CFR 68
<ul><li>39.</li><li>40.</li></ul>	Testing A source emissions test may be required by this Department at any time. The permittee shall provide each point of emission with sampling ports, ladders, stationary platforms, and other safety equipment to facilitate testing. The permittee shall notify the Department in writing at least 60 days prior to conducting any required emissions test on any source, including but not limited to opacity and visible emission observations. This notice shall state the source to be tested, the proposed time and date(s) of the test, the purpose of the test, and the methods to be used. A site-specific test plan and quality assurance program shall be included for sources subject to NESHAP. The methods for such testing shall be in accordance with methods and procedures established by 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63 and any emissions unit specific permit requirements. Performance testing to demonstrate compliance with an NSPS or NESHAP shall include a test method performance audit as required by §60.8(g), §61.13(e), or §63.7(c)(2)(iii)(A), respectively. The permittee shall submit the results of all emissions tests in written form to this Department within a time period specified by this Department; however, not to exceed 30 days from the test completion date unless a longer period is specified in the applicable subpart.  Retention of Records  Records of all required monitoring data, fuel consumption, analyses, reports, safety data sheet (SDS), and other support information shall be retained for a minimum of 5 years from the date when the record was generated. Records must be readily accessible and suitable for inspection. Each record must be kept onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, but may be maintained offsite for the remaining 3 years. Records may be kept in hard copy or electronically. Specific records to be made and retained are listed in the	1.9.1 1.10 18.2.5 18.2.8(c) 60.8(d) 60.8(e) 60.8(g) 61.05(d) 61.13 63.7(a)(3) 63.7(b)-(d) 63.9(e) 63.9(f) 63.10(d) 63.7515(f)  18.5.3(b) 63.10(b)(1) 63.7343
	emission unit conditions.	
	Facility-Specific General Conditions	T
41.	Fugitive Dust  A. The permittee shall take reasonable precautions to prevent dust from any operation, process, materials handling and storage, transportation activity (including dust from paved and unpaved roads), or construction activity (including but not limited to the use, repair, alteration, and demolition of buildings) at the facility from becoming airborne.	6.2.1 6.2.2 6.2.3 18.2.4
	<ul> <li>B. The permittee shall not cause or allow the discharge of visible emissions which travel beyond the property line of the facility.</li> <li>C. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Health Officer may order that the</li> </ul>	

No.	Federally Enforceable General Permit Conditions	Regulations
	building or equipment in which processing, handling and storage are done be	-
	tightly closed and ventilated in such a way that all air and gases and air or gas-	
	borne material leaving the building or equipment are treated by removal or	
	destruction of air contaminants before discharge to the open air.	
	Airborne fugitive dust emissions shall be prevented and addressed as needed and as	
	appropriate to weather conditions using any or all of the following pre-approved control	
	measures specific to the following sources of fugitive dust:	
	A. Use of vacuum truck, street sweeper or water truck on paved surfaces;	
	B. Use of wet suppression system on unpaved surfaces and open storage piles when	
	conditions are dry and fugitive dust could become airborne and leave property	
	lines;	
	C. Maintain existing roof/cover over material conveyors;	
	D. Use, where possible, of water or chemicals for control of dust in the demolition of	
	existing buildings or structures, construction operations, the grading of roads or the	
	clearing of land; and  E. For the quarry, the permittee shall develop a Work Practice Plan to address the	
	control of fugitive dust emissions. This plan shall be maintained and be kept	
	readily available on-site for inspection. The Department reserves the right to	
	require changes if excessive fugitive emissions are observed. The permittee shall	
	notify the Department of any proposed changes to the plan for approval prior to	
	updating the plan which is kept on-site.	
	Wet suppression may be accomplished by the application of water with or without the	
	addition of surfactants, wetting agents or other additives to increase the effectiveness of	
	wet suppression. Manufacturer's documentation of the contents of any chemical,	
	surfactant, wetting agent, or other additive used for dust suppression shall be	
	maintained and readily made available upon request by the Department. Other dust	
	control methods not listed above may be used subject to Department approval.	
42.	Permit Shield and List of Non-Applicable Regulations	18.10
	Compliance with the conditions of the permit shall be deemed compliance with any	
	applicable requirements included and specifically identified in the permit as of the date	
	of permit issuance. All provisions within the General Conditions are applicable	
	requirements unless otherwise noted. The Department has determined that the	
	following requirements are not applicable to the source for the reasons listed:	
	A. Part 5.2, "Incinerators," of the Rules and Regulations does not apply to Emissions Unit No. 005 as it does not meet the definition of an incinerator.	
	B. Part 5.3, "Incineration of Wood, Peanut, and Cotton Ginning Wastes," of the Rules	
	and Regulations does not apply to Emissions Unit No. 005 as it does not meet the	
	definition of an incinerator.	
	C. Part 6.3, "Fuel Burning Equipment," does not apply to Emissions Unit No. 005 as	
	it does not meet the definition of fuel-burning equipment.	
	D. Part 10.4, "Standards of Stationary Reciprocating Internal Combustion Engines,"	
	does not apply to Emissions Unit Nos. 062 and 064, as neither emitted greater than	
	1 ton per day of NO <sub>x</sub> during the baseline period.	
	E. 40 CFR 60, Subpart F, "Standards of Performance for Portland Cement Plants,"	
	does not apply to Emissions Unit Nos. 005 or 006. Pursuant to §60.62(d), the PM	
	limits do not apply, as Emissions Unit Nos. 005 and 006 have demonstrated	
	compliance with the more stringent PM limits of 40 CFR 63, Subpart LLL. The	
	$NO_x$ and $SO_2$ limits for kilns under Subpart F do not apply to Emissions Unit No.	
	005 based on construction date. Pursuant to \$60.62(a)(2), the opacity limit under	
	Subpart F does not apply for sources that use a PM CPMS.	
	F. 40 CFR 60, Subpart OOO, "Standards of Performance for Nonmetallic Mineral	
	Processing Plants," does not apply to Emissions Units No. 001 or 002 as the	
	limestone quarry operations and equipment commenced construction prior to	

No.	Federally Enforceable General Permit Conditions	Regulations
	August 31, 1983, and have not been reconstructed or modified since. Pursuant to \$60.670(b), affected facilities under 40 CFR 60, Subpart F are not subject.	
	G. 40 CFR 63, Subpart EEE, "National Emission Standards for Hazardous Air	
	Pollutants form Hazardous Waste Combustors," does not apply as Emissions Unit	
	No. 005 is not used to burn hazardous waste.	
	This shield does not allow the permittee to violate any requirement that might be	
	triggered by construction, reconstruction or modification of any equipment subject to applicable regulations.	
	Recordkeeping, Reports and Notifications for Entire Facility	
43.	General Recordkeeping Requirements	1.9.1
	The permittee shall keep records of facility-wide operations, activities and materials	18.5.3(b)
	which have the potential to release pollutants into the atmosphere in sufficient detail to	18.7.1
	show compliance with permit conditions and to allow the annual calculation of	70.6(a)(3)(C)
	emissions of regulated pollutants and HAP from each point and fugitive source and	
	activity at the facility. In addition to the records required in the conditions specific to	
	each emission unit, the permittee shall maintain records of the following:	
	<ul><li>A. All reports and notifications submitted to comply with this permit;</li><li>B. Results of all required performance testing, monitoring and sampling;</li></ul>	
	C. Available EDS, SDS and/or other manufacturer supplied contents information	
	relating to the VOC and HAP contents of materials used at the facility;	
	D. For air filtration devices required by this permit, the date of filter replacement and	
	the characteristics of the replacement filter materials;	
	E. All spills or other mishaps of VOC/HAP materials. The record shall include the	
	date, time, and quantity (gallons or pounds) of VOC/HAP materials spilled,	
	recovered and the amount that evaporated to the atmosphere; and	
	F. Records of required monitoring, including (as a minimum):	
	1. The date, place as defined in the permit, and time of sampling or	
	measurements; 2. The date(s) analyses were performed;	
	3. The company or entity that performed the analyses;	
	4. The analytical techniques or methods used;	
	5. The results of such analyses; and	
	6. The operating conditions as existing at the time of sampling or measurement.	
44.	Submission of Reports and Notifications	18.2.4
	The permittee shall submit all reports and notifications required by any permit	18.5.3
	condition and by any applicable NESHAP and/or NSPS to the Department. The reports	
	may be sent by U. S. mail, or common courier (i.e. UPS or FedEx). Reports submitted	
	by US mail shall be postmarked on or before the due date. Reports submitted by	
	electronic mail shall be received on or before the due date. Any application form, report or compliance certification required to be submitted pursuant to the Title	
	V program regulations shall contain a certification by a responsible official that	
	meets the requirements of Section 18.4.9 of the Rules and Regulations. The	
	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. Each report shall identify the company name and address, the beginning and	
	ending dates of the reporting period, and the date of report completion. The records	
	required for each emissions unit shall be used in preparing these reports and	
	notifications. The annual compliance certification shall be submitted to the following 2	
	agencies:  Lefferson County Department of Health  EDA Pagion IV	
	Jefferson County Department of Health EPA Region IV Air Pollution Control Program and to Atlanta Federal Center	
	P.O. Box 2648  Adams Federal Center  Adams Federal Center  Adams Federal Center  61 Forsyth Street	
	Birmingham, Alabama 35202-2648 Atlanta, GA 30303	

No.	Federally Enforceable General Permit Conditions	Regulations
	Submissions to EPA may be (or may be required to be) submitted electronically in	
	compliance with the Cross-Media Electronic Reporting Rule (CROMERR, 40 CFR 3).	
	The following reports and notifications are required to be submitted:  A. <b>Annual Emissions Calculation</b> , due February 10 of each year. The permittee shall	1.5.15
	maintain the records required in the emission unit conditions. The permittee shall	1.9.2
	make calculations of the previous year's actual emissions (point and fugitive) of all	18.7.1
	regulated air pollutants, as defined in Paragraph 18.1.1(w) of the Rules and	
	Regulations, which emanate from the facility. The calculations shall include, but	
	may not be limited to, the following pollutants: PM, PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>X</sub> , CO,	
	VOCs and HAPs. These calculations shall indicate the emissions from each	
	emissions unit permitted, the fugitive emissions from on-site vehicular traffic,	
	emissions from the combustion of motor fuels (diesel, gasoline, propane and	
	natural gas), and emissions from spills, mishaps and other activities not elsewhere	
	included. Documentation of the basis for the calculations, including but not necessarily limited to emission factors and relevant production data. Concurrence	
	with the calculations by the Department shall be the basis for annual emission fees	
	in accordance with Chapter 16 of the Rules and Regulations. Specific reporting	
	requirements are located in:	
	1. Condition No. 6 for the Quarry Operations;	
	2. Condition No. 28 for the Kiln;	
	3. Condition No. 7 for the Clinker Cooler;	
	4. Condition No. 7 for Other Sources Subject to Subpart LLL; and	
	5. Condition No. 9 for Emergency Generators.	
	B. Annual Title V Compliance Certification: A compliance certification with terms	18.7.5
	and conditions contained in the permit, including emissions limitations, standards	
	and work practices, covering the period from October 23 to October 22 of the following year, shall be submitted by November 22 each calendar year. The	
	permittee shall provide a means for monitoring the compliance of its air pollution	
	sources with the emissions limitation, standards and work practices listed or	
	referenced within this permit. The compliance certification shall include the	
	following:	
	1. The identification of each term or condition of the permit that is the basis of	
	the certification;	
	2. The emission unit or units to which the term or condition applies;	
	3. The compliance status;	
	4. Whether compliance has been continuous or intermittent;	
	5. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with the permit's monitoring	
	and recordkeeping requirements; and	
	6. Such other facts as the Department may require to determine the compliance	
	status of the source.	

No.	Federally Enforceable General Permit Conditions	Regulations
	C. Annual NO <sub>x</sub> Ozone Season Reporting to ADEM, covering each calendar year,	10.1.4(b)
	<ol> <li>and due as follows:</li> <li>By December 31 of each year, the permittee shall submit to the ADEM a written certification that compliance with the requirements of Section 10.1.3 has been maintained during that year's five-month period May 1 through September 30. The methods of determining that this compliance has been maintained shall be as specified on the major source operating permit issued for the facility at which the kiln is operated.</li> <li>Annual Reporting: By March 31st of the calendar year following the emission year being reported, the data specified in 40 CFR §§51.122(c)(1) and (2) must be submitted to the ADEM.</li> <li>Triennial Reporting: By March 31st of the calendar year following the emission year being reported, the data specified in 40 CFR §§51.122(c)(3)</li> </ol>	10.1.6
	must be submitted to the ADEM.	GID.
	D. Annual Ozone Season Reporting to ADEM and JCDH: Within 30 days of the end of each Ozone Season (May 1 <sup>st</sup> – September 30 <sup>th</sup> ), the permittee shall report to the ADEM and the Department the total quantity of tons of NO <sub>X</sub> emitted from the kiln stack. This report shall also include a list of times when the SNCR did not operate while the kiln was operating. For each instance when the SNCR did not operate, the permittee shall include the reason the SNCR did not operate as well as the corrective action(s) taken to return the SNCR to service.	SIP Contingency Measure from 4-07-0290-03 Condition 48, approved 7/30/2009 at 74 FR 37945 52.50(d)
	<ul> <li>E. Semi-Annual Monitoring and Compliance Report, due July 30 (covering January, February, March, April, May and June) and January 30 (covering July, August, September, October, November and December of the previous year). Each report must identify the company name, the date of the report, and the beginning and end dates of the reporting period. The report must include, as a minimum:</li> <li>1. If there are no deviations from any permit condition, a statement that there were no deviations during the reporting period.</li> <li>2. Any and all instances of deviation from any permit condition during the reporting period must be clearly identified.</li> <li>3. For each affected source required to install a CMS by a relevant standard, submit an excess emissions and continuous monitoring system performance report and/or summary report as required by §63.10(e).</li> <li>4. If the total continuous monitoring system downtime for any CEM or any CMS is 10 percent or greater of the total operating time for the reporting period, submit an excess emissions and continuous monitoring system performance report along with the summary report.</li> </ul>	1.5.15 1.9.2 18.2.4 18.5.3(c)(1) 18.7.1 63.1354(b)
	<ul> <li>F. Semiannual Report for Sources Subject to 40 CFR 63 Subpart LLL to be submitted within 60 days of the reporting period via the Compliance and Emissions Data Reporting Interface (CEDRI), to include the following information: <ol> <li>Information specified in §63.10(e)(3)(vi).</li> <li>All exceedances of maximum control device inlet gas temperature limits specified in §63.1346(a) and (b).</li> <li>Notification of any failure to calibrate thermocouples and other temperature sensors as required under § 63.1350(g)(1)(iii).</li> <li>Notification of failure to conduct any combustion system component inspections conducted within the reporting period as required under §63.1347(a)(3).</li> </ol> </li> <li>Any and all failures to comply with any provision of the operation and maintenance plan developed in accordance with §63.1347(a).</li> </ul>	63.1354

	Federally Enforceable General Permit Conditions	Regulations
	6. For each PM CPMS, HCl, Hg, and THC CEMS, SO <sub>2</sub> CEMS, or Hg sorbent	
	trap monitoring system, within 60 days after the reporting periods, report all of	
	the calculated 30-operating day rolling average values derived from the	
	CPMS, CEMS, CMS, or Hg sorbent trap monitoring systems.	
	7. If the total continuous monitoring system downtime for any CEMS or any	
	CMS for the reporting period is 10 percent or greater of the total operating	
	time for the reporting period, an excess emissions and continuous monitoring	
	system performance report.	
	8. In response to each violation of an emissions standard or established operating	
	parameter limit, the date, duration and description of each violation and the	
	specific actions taken for each violation including inspections, corrective	
	actions and repeat performance tests and the results of those actions.	
	9. For each failure to meet a standard or emissions limit caused by a malfunction	
	at an affected source, the date, time, duration, and cause of each event	
	(including unknown cause, if applicable), and a sum of the number of events	
	in the reporting period.	
	a. For each event, include:	
	i. The affected source or equipment;	
	ii. An estimate of the amount of each regulated pollutant emitted over	
	the emission limit for which the source failed to meet a standard;	
	iii. Description of the method used to estimate the emissions; and	
	iv. Description of actions taken during a malfunction to minimize	
	emissions, including actions taken to correct a malfunction.	
G.		Consent Decree
	termination of Consent Decree No. 5:19-cv-05688, the following information,	Action No.
	within thirty days after the end of each half calendar year, for the immediately	5:19-cv-05688
	preceding half calendar year, to be submitted to EPA and the Department:	
	1. All CEMS data collected for the kiln (EU 005) for the reporting period,	
	reduced to 1-hour averages, in accordance with 40 CFR §60.13(h)(2),	
	including an explanation of any periods of CEMS downtime together with	
	missing data for which missing data substitution procedures were applied, in	
	accordance with Section V.B and Section VI.C of the Consent Decree, in an	
	electronic format and able to be manipulated with Microsoft Excel;	
	2. 30-day rolling average NO <sub>x</sub> and SO <sub>2</sub> CEMS emission data for each day in the	
	reporting period for demonstrating compliance with the applicable limits; and	
	3. Description of any noncompliance with the requirements of the Consent	
	Decree and an explanation of the violation's likely cause and of the remedial	
	steps taken, or to be taken, to prevent or minimize such violation.	
H.		18.4.8(h)
	any compliance schedule the permittee is subject to or becomes subject to during	` '
	the permit term.	
I.	Results of performance testing and CMS performance evaluations within 30	1.9.2
	days after completion.	18.7.1
		63.1354(b)(6)
J.	Episodic prompt reporting of malfunctions, deviations, and violations as	1.12
٦.	follows:	18.5.3(c)(2)
	a. Deviations and violations of any permit condition, including but not	63.10(d)(5)(ii)
	limited to emission limitations, within 2 working days of the deviation or	63.1354
	discovery of a violation at any source of air pollution. The report shall	03.1334
	include the probable cause of any deviation and any corrective actions or	
	preventative measures that were taken. Specific reporting requirements	
	include:	
1	i. For Subpart LLL:	

No.	Federally Enforceable General Permit Conditions	Regulations
	1. As required by §63.10(e)(3), for each affected source	
	equipped with a continuous emission monitor shall	
	submit an excess emissions and continuous monitoring	
	system performance report for any event when the	
	continuous monitoring system data indicate the source	
	is not in compliance with the applicable emission	
	limitation or operating parameter limit.  2. If the total continuous monitoring system downtime for	
	any CEM or any CMS is 10 percent or greater of the	
	total operating time for the reporting period, submit an	
	excess emissions and continuous monitoring system	
	performance report along with the summary report.	
	3. Semiannual reporting of the following:	
	a. Exceedances of maximum control device inlet	
	gas temperature limits;	
	b. Any failure to calibrate thermocouples and	
	other temperature sensors;	
	c. Failure to conduct any combustion system	
	component inspections conducted within the	
	reporting period;	
	d. Any and all failures to comply with any	
	provision of the operation and maintenance	
	plan;	
	e. In response to each violation of an emissions	
	standard or established operating parameter	
	limit, the date, duration and description of each violation and the specific actions taken for	
	each violation including inspections, corrective	
	actions and repeat performance tests and the	
	results of those actions;	
	f. Information required by §63.1354(b)(10).	
	ii. For Consent Decree 5:19-cv-05688:	
	1. A violation includes failing to perform any obligation	
	required by the terms of the Consent Decree, including	
	any work plan or schedule approved under the Consent	
	Decree, according to all applicable requirements of the	
	Consent Decree and within the specified time schedules	
	established by or approved under the Consent Decree.	
	Violation of an emission limit that is based on a 30-Day	
	rolling average is a violation on every day on which the average is based.	
	2. If the permittee violates, or has reason to believe that it	
	may violate, any requirement of the Consent Decree, the	
	permittee shall notify EPA and the Department of such	
	violation and its likely duration, in writing, within ten	
	(10) business days of the day that the permittee first	
	becomes aware of the violation, including the following	
	information:	
	a. Explanation of the violation's likely cause and	
	of the remedial steps taken, or to be taken, to	
	prevent or minimize such violation and to	
	mitigate any adverse effect of such violation.	
	b. The permittee shall investigate the cause of the	
	violation and shall then submit an amendment	

No.		Federally Enforceable General Permit Conditions	Regulations
		to the report required under Paragraph 54 of	
		the Consent Decree, including a full	
		explanation of the cause of the violation,	
		within thirty (30) days of the day that the	
		permittee becomes aware of the cause of the violation.	
		3. Whenever any violation of the Consent Decree, or of	
		any applicable permits required under the Consent	
		Decree, or any other event affecting the permittee's	
		performance under the Consent Decree, or the	
		performance of the source permitted herein, may pose	
		an immediate threat to the public health or welfare or	
		the environment, the permittee shall notify EPA and the	
		Department, orally or by electronic or facsimile	
		transmission as soon as possible, but no later than	
		twenty-four (24) hours after the permittee first knew, or	
		should have known, of the violation or event. This	
		procedure is in addition to the requirements set forth in	
		Paragraph 55 of the Consent Decree.	
		4. All reports for the Consent Decree shall be submitted to	
		EPA and the Department, as designated in Section XX	
		of the Consent Decree.	
		5. Each report submitted by the permittee under Section	
		XII of the Consent Decree shall be signed by an official	
		of the submitting party and including the certification	
		under Paragraph 58 of the Consent Decree.  a. This certification requirement does not apply	
		to emergency or similar notifications where	
		compliance would be impractical.	
	b.	Malfunctions shall be reported within 24 hours and a statement shall be	
		provided giving all pertinent facts, including the estimated duration of the	
		breakdown. The permittee shall notify the Department when the condition	
		causing failure or breakdown has been corrected, and such source,	
		equipment, or facility is again in operation. Specific reporting	
		requirements include:	
		i. For Subpart LLL:	
		1. For each failure to meet a standard or emissions limit	
		caused by a malfunction at an affected source, report	
		semiannually the date, time, duration, and cause of each	
		event (including unknown cause, if applicable), and a	
		sum of the number of events in the reporting period.	
		<ul><li>a. For each event, include:</li><li>i. The affected source or equipment;</li></ul>	
		ii. An estimate of the amount of each	
		regulated pollutant emitted over the	
		emission limit for which the source	
		failed to meet a standard;	
		iii. Description of the method used to	
		estimate the emissions; and	
		iv. Description of actions taken during a	
		malfunction to minimize emissions,	
		including actions taken to correct a	
		malfunction.	

No.		Regulations		
	K.	K. <b>Notifications</b> as follows:		18.2.4
		a.	Notification of performance testing as required by §63.7 and §63.9(e).	18.7.1
		b.	Notification of opacity and visible emission observations required by	63.1353(b)
			§63.1349 in accordance with §§63.6(h)(5) and 63.9(f).	63.9(j)
		c.	Notification, as required by §63.9(g), of the date that the continuous	
			emission monitor performance evaluation required by §63.8(e) is	
			scheduled to begin.	
		d.	Notification within 48 hours of a Subpart LLL exceedance that triggers	
			retesting to establish compliance and new operating limits. The	
			notification requirements of §§63.7(b) and 63.9(e) do not apply to this	
			retesting.	
		e.	Notifications of 40 CFR 63, Subpart A, as indicated in Table 1 of Subpart	
			LLL.	
		f.	Initial notifications, as required by §63.9(b) through (d) and specified in	
			§63.1353(b)(1).	
		g.	Any change in information already provided under 40 CFR 63 shall be	
			submitted in writing within 30 calendar days after the change per §63.9(j).	
		h.	Notify the Department in writing within 2 working days of becoming	
			subject to a federal Maximum Achievable Control Technology (MACT)	
			standard pursuant to §112 of the Act (local requirement).	
	L.		tory Greenhouse Gas Reporting (for informational purposes only): The	40 CFR 98
			ee shall be aware that the facility may be required to report emissions of	
			ouse gases directly to EPA under the Mandatory Greenhouse Gas Reporting	
			he reporting threshold is annual greenhouse gas emissions equal to 25,000	
			ons CO <sub>2</sub> e, calculated using the methods presented in 40 CFR 98.	
			ory greenhouse gas reporting is made directly to EPA and is not an	
			able requirement of this Title V Major Source Operating Permit. It is the	
		-	ee's responsibility to determine whether reporting is required each calendar	
		year.		

### **Federally Enforceable Conditions for Quarry Operations**

Emissions Unit No.	Emissions Unit Description
001	Primary Jaw Crusher and Conveying System
002	Secondary Limestone Crusher (Hammer Mill) and Conveying

No.	Federally Enforceable Conditions for Quarry Operations		Regulations			
1.	Applicability		6.1			
	The emissions units permitted herein are subject to Part 6.1, "Visible Emission	ons," and Part	6.4			
	6.4, "Process Industries – General," of the Rules and Regulations.					
2.	Reconstruction and Modification		18.2.4			
	The emissions units are not subject to 40 CFR 60, Subpart OOO, "Standards		18.5.3			
	Performance for Nonmetallic Mineral Processing Plants," as construction of		60.14			
	commenced prior to August 31, 1983, and the units have not been reconstruct		60.15			
	modified since. Pursuant to §60.670(d), when an existing facility is replaced		60.670(d)			
	equipment of equal or smaller size, as defined in §60.671, having the same fu		60.670(e)			
	existing facility, and there is no increase in the amount of emissions, the new		60.671			
	exempt from the provisions of §60.672, §60.674, and §60.675, except when a		60.673			
	facilities in a production line are replaced with new facilities. To claim this e		60.676(a)			
	permittee must submit the following information about the existing facility b	eing replaced				
	and the replacement equipment to the Department:					
	A. For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed	osed truck or				
	railcar loading station:					
	1. The rated capacity in megagrams or tons per hour of the existing fac	cility being				
	replaced.					
	2. The rated capacity in tons per hour of the replacement equipment.					
	B. For a screening operation:	. 1 .				
	1. The total surface area of the top screen of the existing screening ope	eration being				
	replaced					
	<ul><li>2. The total surface area of the top screen of the replacement screening</li><li>C. For a conveyor belt:</li></ul>	g operation.				
	•					
	1. The width of the existing belt being replaced.					
	<ul><li>2. The width of the replacement conveyor belt.</li><li>D. For a storage bin:</li></ul>					
	1. The rated capacity in megagrams or tons of the existing storage bin	haina				
	replaced.	ocing				
		c				
	2. The rated capacity in megagrams or tons of replacement storage bins. For any other modifications or reconstruction, as defined under §60.14 and §60.15, the					
	permittee shall notify the Department prior to any reconstruction or modifica					
	identifying any applicable requirements which are triggered by the change to allow the					
	Department to determine if reopening and revision of the permit is required.					
	shield will apply for requirements triggered by modification or reconstruction					
3.	Emission Limitations for Quarry Equipment from the State Implementation Plan					
	(SIP)		6.1.1 6.4.1			
	The permittee shall not cause or allow emissions from this emission unit in excess of the					
	emission limits below:					
	Pollutant Limit	Authority				
	$E = 3.59p^{0.62}$ , where E is emission rate (lb/hr) and p is the					
	Particulate process weight rate (tons/hr), where $p < 30$ tons/hr	611				
	Matter or	6.4.1				
	(PM) $E = 17.31p^{0.16}$ , where E is emission rate (lb/hr) and p is					
	the process weight rate (lb/hr), where $p \ge 30$ tons/hr					

No.	Federally Enforceable Conditions for Quarry Operations			Regulations		
	Pollutant	Limit	Authority			
	Opacity	20 % opacity (6-minute average), except for one 6-minute period per hour of not more than 40 % opacity	6.1.1			
4.	<b>Fugitive Part</b>	iculate Matter		18.5.3		
		gitive particulate emissions, as required by General Condition		6.2		
		l use a wet suppression system for the emissions units permitte				
		plan described in Item E of General Condition No. 40 shall be				
		ailable for inspection and shall be implemented to prevent exc	essive fugitive			
_	dust.			10.5.2		
5.		ions Monitoring and Recordkeeping	CDA	18.5.3		
		ittee shall observe each crushing and conveying system accord 2 at least once each week when the system operates. The obser		6.1.1 6.1.2		
		tly record the time and date of the observation, and the present		0.1.2		
		ible emissions. If visible emissions are observed, corrective ac				
		the visible emissions shall be initiated within one hour. Within				
		etion of the corrective activities, the permittee shall again obse				
		operation. If visible emissions are present, a certified observe				
	complete an EPA Method 9 Visible Emissions Evaluation within three business days					
	to establish compliance with the opacity limitation.					
	B. A permanent record in the form of the date, time, and type of corrective action initiated					
	to eliminate the visible emissions and the date and time the corrective actions were					
	completed shall be provided in the same record that contained the initial observation.					
6.		ng Requirements		1.5.15		
		shall maintain, as a minimum, the following records for each		1.9.2		
		e compliance with the applicable requirements and to serve as	basis for	18.5.3		
	emissions cald					
		al production data reporting and emissions calculations: quantity of rock blasted and rock loaded (short tons);				
		quantity of noterial processed in each crusher; and				
		nours of operation for blasting, loading and each crusher for the	e previous			
	calendar year.					
		nstrating compliance with the applicable requirements:				
		rds of visible emissions observations and any resulting correct	ive actions;			
	and					
	2. The	ugitive dust work practice plan.				

### **Summary Tables for Common 40 CFR 63, Subpart LLL Requirements**

Affected Sources
Rotary Kiln
Raw Mill
Clinker Cooler
Finish Mill(s)
Raw Material, Clinker, or Finished Product Storage Bin
Conveying System Transfer Points
Bagging and Bulk Loading and Unloading Systems
Open Clinker Storage Piles

Requirement	Citation	Summary
General Duty to Minimize Emissions	· 63.1348(d)	Operate and maintain affected sources in a manner consistent with safety and good air pollution control practices for minimizing emissions
Operation and Maintenance Plan	· 63.1343(c) · 63.1347	Prepare and operate according to a written operations and maintenance (O&M) plan detailing the proper O&M of the affected sources under 40 CFR 63, Subpart LLL and air pollution control devices, including fugitive dust control measures for open clinker storage piles
Operational Changes	· 63.1348(c)	Performance testing is required, if an operational change is planned that may adversely affect compliance with an applicable standard, limit, or monitoring value under Subpart LLL
Continuous Monitoring	<ul><li>63.1348(b)</li><li>63.1348(b)(1)</li><li>63.1350(a)</li></ul>	Compliance with each applicable emissions and operating standard on a continuous basis
Site-Specific Monitoring Plan	· 63.1350(p)	For any applicable emissions limit under Subpart LLL that compliance is demonstrated through performance stack testing or other emissions monitoring, a site-specific monitoring plan is required that addresses proper O&M of continuous monitoring equipment
Performance Testing	<ul><li>63.1348(a)</li><li>63.1349(a)</li><li>63.1349(b)</li></ul>	Performance testing must be conducted according to the test methods and procedures of §63.1349 and §63.7, and reports must contain the information specified in §63.1349(a)
Parameter Monitoring	63.1350(m)(1) 63.1350(m)(2) 63.1350(m)(3) 63.1350(m)(4)	Each CMS must be operated according to the general requirements of §63.1350(m)(1) through (4), with §63.1350(m)(5) through (11) containing additional requirements for specific parameters
Notifications	. 63.1353	Notifications are required:  As indicated in Table 1 of Subpart LLL  Initial notifications, as required by §63.9(b) through (d)  Prior to performance tests, visible emission observations, and/or CEMS performance evaluations  For notifying of compliance status  Within 48 hours of exceedances that trigger retesting
Reporting	• 63.1354	Reports must be submitted:  As indicated in Table 1 of Subpart LLL  For performance test, visible emission observations, and CEMS performance evaluations results  For excess emissions and continuous monitoring system performance reports, as required  Semiannually, containing the information of §63.1354(b)(9)

Requirement	Citation	Summary
Recordkeeping	• 63.1355	<ul> <li>Records must be maintained of:</li> <li>Information as required by §§§63.10(b)(2), 63.10(b)(3), and 63.10(c)</li> <li>Applicability determinations</li> <li>Information supporting waivers granted under §63.8(f)(6)</li> <li>Daily clinker production rates</li> <li>Information on startup and shutdown periods for affected sources subject to an operational standard for startup and shutdowns, including the quantity of feed and fuel used during that time</li> <li>Information on malfunctions that causes an affected source to fail to meet a standard</li> <li>Information on exceedances from an emissions standard or operating limit</li> </ul>

# $\frac{\textbf{Federally Enforceable Conditions Applicable to Sources Subject to 40 CFR 63, Subpart}{\underline{\textbf{LLL}}}$

Emissions Unit No.	Emissions Unit Description
003, 004, & 034	Kiln Feed Storage and Handling
005	Preheater Rotary Kiln with Loesche Mill
006	Clinker Cooler
007, 008, 009, 010, 013, & 063	Clinker Handling
011, 012 & 014	No. 5, No. 6, & No. 7 Clinker Finish Grinding Ball Mills
015, 016 & 017	Rotary Packing Machine and Cement Transfer System
018, 019, 022 & 023	"B" Silo Storage and Loadout
020, 021, 024, 025, 026, 027, 028, 029, 030 & 031	"C" Silo Storage and Loadout
051, 061, 052, 053, 054, 055, 056, 057, 058, 059 & 060	"D" Silo Storage and Loadout

No.	Federally Enforceable Conditions Applicable to Sources Subject to 40 CFR 63, Subpart LLL	Regulations
1.	Applicability	63.1340(a)
	The affected sources under 40 CFR 63, Subpart LLL are the following:	63.1340(b)
	· Each kiln including alkali bypasses and inline coal mills;	63.1342
	· Each clinker cooler;	63.1351(d)
	• Each raw mill;	63.1356
	• Each finish mill;	
	· Each raw material, clinker, or finished product storage bin;	
	<ul> <li>Each conveying system transfer point including those associated with coal</li> </ul>	
	preparation used to convey coal from the mill to the kiln;	
	<ul> <li>Each bagging and bulk loading and unloading system; and</li> </ul>	
	• Each open clinker storage pile.	
	The following conditions are common requirements of Subpart LLL for the emissions	
	units included in the table above or requirements shared between multiple of the	
	emissions units. Equipment-specific emissions and operating standards, and	
	associated performance testing and monitoring requirements are contained in	
	subsequent sections. Table 1 of Subpart LLL provides cross references to the general	
	provisions of 40 CFR 63, Subpart A indicating the applicability to Subpart LLL. For	
	any new affected source under Subpart LLL, the compliance date is upon startup. For	
	affected sources subject to a different emissions limit or requirement for the same	
	pollutant under another regulation in Chapter I of Title 40, once the permittee is in	
	compliance with the most stringent emissions limit or requirement, the less stringent	
	requirement no longer applies. Until the permittee is in compliance with the more	
	stringent limit, the less stringent limit continues to apply.	
2.	General Duty	63.1348(d)
	At all times, the permittee must operate and maintain any affected source under	
	Subpart LLL, including associated air pollution control equipment and monitoring	
	equipment, in a manner consistent with safety and good air pollution control practices	
	for minimizing emissions. Determination of whether such operation and maintenance	
	procedures are being used will be based on information available to the Department,	
	which may include, but is not limited to, monitoring results, review of operation and	

No.	Federally Enforceable Conditions Applicable to Sources Subject to 40 CFR 63, Subpart LLL	Regulations
	maintenance procedures, review of operation and maintenance records, and inspection of the source.	
3.	<ul> <li>Operation and Maintenance Plan Requirements</li> <li>The permittee must prepare a written operations and maintenance plan. The plan must include the following information:  A. Procedures for proper operation and maintenance of the affected source and air pollution control devices in order to meet the emissions limits and operating limits, including fugitive dust control measures for open clinker piles of §63.1343, §63.1345, and §63.1346. The operations and maintenance plan must address periods of startup and shutdown.</li> <li>B. Corrective actions to be taken when required by §63.1350(f)(3).</li> <li>C. Procedures to be used during an inspection of the components of the combustion system of each kiln and in-line raw mill at the facility for at least once per year. For each open clinker storage pile, the permittee must prepare, and operate in accordance with, the fugitive dust emissions control measures, described in the operations and maintenance plan, required by §63.1347, that is appropriate for site conditions, as specified in §63.1343(c)(1) through (3). The operations and maintenance plan must also describe the measures that will be used to minimize fugitive dust emissions from piles of clinker, such as accidental spillage, that are not part of open clinker storage piles.</li> <li>A. The plan must identify and describe the location of each current or future open clinker storage pile and the fugitive dust emissions control measures the permittee will use to minimize fugitive dust emissions from each open clinker storage pile.</li> <li>B. The plan must specify that one or more of the following control measures will be used to minimize to the greatest extent practicable fugitive dust from open clinker storage piles, as appropriate for site conditions. The plan must also explain how the measure or measures selected are applicable and appropriate for site conditions. In addition, the plan must be revised as needed to reflect any changing conditions at the source.</li> <li>1. Locating the source inside</li></ul>	63.1343(c) 63.1347
4.	violation of the standard.  Operational Changes	63.1348(c)
	If the permittee plans to undertake a change in operations that may adversely affect compliance with an applicable standard, operating limit, or parametric monitoring value under Subpart LLL, a performance test must be conducted, as specified in §63.1349(b). In preparation for and while conducting a performance test, the permittee may operate under the planned operational change conditions for a period not to exceed 360 hours, provided that the following conditions are met and temperature and other monitoring data recorded during the pretest operations are submitted:  A. Provide the Department written notice at least 60 days prior to undertaking an operational change that may adversely affect compliance with an applicable standard under Subpart LLL for any source, or as soon as practicable where 60 days advance notice is not feasible.  1. Notice provided must include a description of the planned change, the emissions standards that may be affected by the change, and a schedule for	33.13 10(0)

No.	Federally Enforceable Conditions Applicable to Sources Subject to 40 CFR 63, Subpart LLL	Regulations
	completion of the performance test, including when the planned operational	
	change period would begin.	
	B. The performance test results must be documented in a test report according to	
	§63.1349(a).	
	C. A test plan must be made available to the Department prior to performance	
	testing, if requested.	
	D. The performance test must be completed within 360 hours after the planned	
	operational change period begins.	
5.	Continuous Monitoring Requirements	63.1348(b)
	Compliance must be demonstrated with each applicable emissions and operating	63.1348(b)(1)
	standard on a continuous basis for each affected source, as follows:	63.1350(a)
	A. Use the performance tests methods and procedures of §63.1350 and §63.8, as	
	applicable.	
	B. Monitor and collect data according to §63.1350 and the site-specific monitoring	
	plan required by §63.1350(p).	
	C. Except for periods of startup and shutdown, monitoring system malfunctions,	
	repairs associated with monitoring system malfunctions, and required monitoring	
	system quality assurance or quality control activities (including, as applicable,	
	calibration checks and required zero and span adjustments), operate the	
	monitoring system and collect data at all required intervals at all times the	
	affected source is operating.	
	D. Data recorded during monitoring system startup, shutdown or malfunctions or	
	repairs associated with monitoring system malfunctions in calculations may not	
	be used to report emissions or operating levels. Data collected during all other	
	periods must be used in assessing the operation of the control device and	
	associated control system.	
	1. 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.	
	E. For each existing unit equipped with a CMS, maintain the average emissions or	
	the operating parameter values within the operating parameter limits established	
	through performance tests.	
	F. Any instance where the permittee fails to comply with the continuous monitoring	
	requirements of §63.1350 is a violation.	
6.	Site-Specific Monitoring Plan	63.1350(p)
	For any applicable emissions limit that compliance is demonstrated through	
	performance stack testing or other emissions monitoring, a site-specific monitoring	
	plan must be developed according to the following requirements.	
	A. For each CMS required by §63.1350, develop and submit to the Department for	
	approval upon request, a site-specific monitoring plan that addresses the	
	following requirements.	
	1. Installation of the CMS sampling probe or other interface at a measurement	
	location relative to each affected process unit such that the measurement is	
	representative of control of the exhaust emissions (e.g., on or downstream of	
	the last control device).	
	2. Performance and equipment specifications for the sample interface, the	
	pollutant concentration or parametric signal analyzer, and the data collection	
	and reduction systems.	
	3. Performance evaluation procedures and acceptance criteria (e.g.,	
	calibrations).	
	4. Ongoing operation and maintenance procedures in accordance with the	
	general requirements of $63.8(c)(1)$ , $(c)(3)$ , and $(c)(4)(ii)$ .	

5. Ongoing data quality assurance procedures in accordance w requirements of §63.8(d).	
<ul> <li>6. Ongoing recordkeeping and reporting procedures in accordance general requirements of §63.10(c), (e)(1), and (e)(2)(i).</li> <li>B. Conduct a performance evaluation of each CMS in accordance was specific monitoring plan.</li> <li>C. Operate and maintain each CMS in continuous operation according specific monitoring plan.</li> </ul>	vith the site-
7. Performance Testing Requirements Compliance with the applicable emissions standards and operating lindemonstrated using the tests methods and procedures of §63.1349 and demonstrating initial compliance, the first day of the 30 operating dattest is the first day after the compliance date following completion of and data collection that demonstrates that the CPMS or CEMS has sa relevant CPMS performance evaluation or CEMS performance speci 2, 12A, or 12B) acceptance criteria. The performance test period is compliance test earlier than the compliance date if desired. Performants be conducted under such conditions as the Department specifies representative performance of the affected source for the period being requested, the site-specific test plan must be made available to the Deto to testing. Performance test results shall be documented, as follows:  A. A brief description of the process and the air pollution control sy B. Sampling location description(s).  C. A description of sampling and analytical procedures and any mostandard procedures.  D. Test results.  E. Quality assurance procedures and results.  F. Records of operating conditions during the performance test, prestandards, and calibration procedures.  G. Raw data sheets for field sampling and field and laboratory analy H. Documentation of calculations.  I. All data recorded and used to establish parameters for monitorin J. Any other information required by the performance test method.  K. For PM performance tests reports used to set a PM CPMS operatinclude the following:  1. Make and model of the PM CPMS instrument.  2. Serial number of the instrument.  3. Analytical principle of the instrument (e.g., beta attenuation 4. Span of the instruments primary analytical range.  5. Milliamp value or digital equivalent to the instrument zero of 6. Technique by which the zero value was determined.  7. Average milliamp or digital equivalent signals corresponding compliance test run.  L. For D/F performance test reports:  1. Continuous temperature records.  2. A	d §63.7. For y performance of the field testing titisfied the fication (e.g., PS complete at the ion of performing rmance tests is based on g tested. If the partment prior estern.  diffications to eparation of the partment prior estern.  eparation of the partment prior estern.  eparation of the partment prior estern.  eparation of the partment prior estern

No.	Federally Enforceable Conditions Applicable to Sources Subject to 40 CFR 63, Subpart LLL	Regulations
8.	Parameter Monitoring Requirements	63.1350(m)(1)
0.	For each operating limit that requires the use of a CMS, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS), according to the following general procedures. §63.1350(m)(5) through (11) contains	63.1350(m)(2) 63.1350(m)(3) 63.1350(m)(4)
	requirements for specific parameter monitoring and is contained in subsequent conditions, as appropriate.	
	A. The CMS must complete a minimum of one cycle of operation for each successive 15-minute period. A minimum of four successive cycles of operation to have a valid hour of data.	
	B. Conduct all monitoring in continuous operation at all times that the unit is operating.	
	C. Determine the 1-hour block average of all recorded readings.	
	D. Record the results of each inspection, calibration, and validation check.	
9.	Notification Requirements	63.1353
	The permittee shall submit notifications, as follows:	
	A. Notifications of 40 CFR 63, Subpart A, as indicated in Table 1 of Subpart LLL.	
	1. If any notice required by the Department contains all of the information	
	required in a notification required by §63.1353, the permittee may send the	
	Administrator a copy of the notice sent to the Department to satisfy the requirements for that notification.	
	B. Notification requirements in §63.9, as follows:	
	1. Initial notifications, as required by §63.9(b) through (d) and specified in	
	§63.1353(b)(1).	
	a. A Title V or 40 CFR 70 permit application may be used in lieu of the	
	initial notification under §63.9(b), provided the same information is	
	contained in the permit application. Permit applications shall be	
	submitted by the same due dates as those specified for the initial	
	notification.	
	2. Notification of performance tests, as required by §63.7 and §63.9(e).	
	3. Notification of opacity and visible emission observations required by	
	§63.1349 in accordance with §63.6(h)(5) and §63.9(f).	
	4. Notification, as required by §63.9(g), of the date that the continuous	
	emission monitor performance evaluation required by §63.8(e) is scheduled	
	to begin.	
	5. Notification of compliance status, as required by §63.9(h).	
	6. Within 48 hours of an exceedance that triggers retesting to establish	
	compliance and new operating limits, notify the Department of the planned	
	performance tests. The notification requirements of §63.7(b) and §63.9(e) do	
10	not apply to retesting required for exceedances under Subpart LLL.	(2.1254
10.	Reporting Requirements  The permittee shall submit reports as follows:	63.1354
	The permittee shall submit reports, as follows:  A. Reporting requirements of 40 CFR 63, Subpart A, as indicated in Table 1 of	
	A. Reporting requirements of 40 CFR 63, Subpart A, as indicated in Table 1 of Subpart LLL.	
	1. If any report required by the Department contains all of the information	
	required in a report required by §63.1354, the permittee may send the	
	Administrator a copy of the report sent to the Department to satisfy the	
	requirements for that report.	
	B. Reporting requirements of §63.10, as follows:	
	1. As required by §63.10(d)(2), the results of performance tests as part of the	
	notification of compliance status.	
	2. As required by §63.10(d)(3), the opacity results from tests required by §63.1349.	
	3. As required by §63.10(d)(4), if the permittee is required to submit progress	
	reports as a condition of receiving an extension of compliance under §63.6(i)	

No.	Feder	ally Enforceable Conditions Applicable to Sources Subject to 40 CFR 63, Subpart LLL	Regulations		
	shall submit such reports by the dates specified in the written extension of				
	4.				
		submitted simultaneously with the results of the performance test.			
	5.	As required by §63.10(e)(3), an excess emissions and continuous monitoring			
		system performance report for any event when the continuous monitoring			
		system data indicate the source is not in compliance with the applicable			
		emission limitation or operating parameter limit.			
	6.	Performance testing results, as required by \$63.1349(a) and \$63.1354(b)(11)			
	7.	A semiannual report according to the following requirements:			
		a. Within 60 days of the reporting period, submit the semiannual report to			
		EPA via the Compliance and Emissions Data Reporting Interface			
		(CEDRI), which can be accessed through the EPA's Central Data			
		Exchange (CDX) at https://www.cdx.epa.gov.			
		i. Use the appropriate electronic report in CEDRI for Subpart LLL.			
		(a) If the reporting form specific to Subpart LLL is not available at the time the report is due, submit the report to the			
		Administrator at the appropriate address listed in §63.13.			
		(b) Instead of using the electronic report in CEDRI, an alternate			
		electronic file consistent with the extensible markup language			
		(XML) schema listed on the CEDRI website			
		(https://www.epa.gov/electronic-reporting-air-			
	emissions/compliance-and-emissions-data-reporting-interface-				
		cedri), once the XML schema is available.			
	ii. Begin submitting reports via CEDRI no later than 90 days after the				
		form becomes available in CEDRI.			
		iii. Excess emissions and summary reports must be submitted no later			
		than 60 days after the end of the reporting period, regardless of the			
		method in which the reports are submitted.			
		<ul><li>b. The report must contain the following information:</li><li>i. Information specified in §63.10(e)(3)(vi).</li></ul>			
		<ul><li>i. Information specified in \$63.10(e)(3)(vi).</li><li>ii. All exceedances of maximum control device inlet gas temperature</li></ul>			
		limits specified in §63.1346(a) and (b).			
		iii. Notification of any failure to calibrate thermocouples and other			
		temperature sensors as required under §63.1350(g)(1)(iii).			
		iv. Notification of failure to conduct any combustion system			
		component inspections conducted within the reporting period as required under §63.1347(a)(3).			
		v. Any and all failures to comply with any provision of the operation			
		and maintenance plan developed in accordance with §63.1347(a).			
		vi. For each PM CPMS, HCl, Hg, and THC CEMS, SO <sub>2</sub> CEMS, or Hg			
		sorbent trap monitoring system, within 60 days after the reporting			
		periods, report all of the calculated 30-operating day rolling average			
		values derived from the CPMS, CEMS, CMS, or Hg sorbent trap			
		monitoring systems.			
		vii. In response to each violation of an emissions standard or			
		established operating parameter limit, the date, duration and			
		description of each violation and the specific actions taken for each violation including inspections, corrective actions and repeat			
		performance tests and the results of those actions.			
		viii. If the total continuous monitoring system downtime for any CEM			
		or CMS for the reporting period is 10 percent or greater of the total			
		operating time for the reporting period, submit an excess emissions			
		operating time for the reporting period, business an excess emissions			

No.	Federally Enforceable Conditions Applicable to Sources Subject to 40 CFR 63, Subpart LLL	Regulations
	and continuous monitoring system performance report along with the summary report.  ix. For each failure to meet a standard or emissions limit caused by a malfunction at an affected source, report the failure and the following information:  (a) Date, time, and duration of each event.  (b) Cause of each event, including unknown cause, if applicable.  (c) Sum of the number of the events in the reporting period.  (d) The affected source or equipment.  (e) Estimate of the amount of each regulated pollutant emitted over the emission limit for which the source failed to meet a standard.  (f) Description of the method used to estimate the emissions.  (g) Description of actions taken during the malfunction to minimize emissions in accordance with §63.1348(d), including actions taken to correct a malfunction.  8. All reports required by Subpart LLL not subject to the requirements in the introductory text of §63.1354(b)(9) and §63.1354(b)(11) must be sent to the Administrator at the appropriate address in §63.13. The Administrator or the Department may request a report in any form suitable for the specific case (e.g., by commonly used electronic media such as Excel spreadsheet, on CD or hard copy). The Administrator retains the right to require submittal of reports subject to the introductory text of §63.1354(b)(9) and	
11.	Recordkeeping Requirements  The permittee shall maintain the following records in a form suitable and readily available for inspection and review. The files shall be retained for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two years of data shall be retained on site. The remaining three years of data may be retained off site. The files may be maintained on microfilm, on a computer, on floppy disks, on magnetic tape, or on microfiche.  A. All reports and notifications submitted for compliance with Subpart LLL.  B. Records shall be maintained as required by §63.10(b)(2), §63.10(b)(3), and §63.10(c).  C. All documentation supporting initial notifications and notifications of compliance status under §63.9.  D. All records of applicability determination, including supporting analyses.  E. If a waiver has been granted under §63.8(f)(6), any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements.  F. Records of daily clinker production rates.  G. Records of the date, time and duration of each startup or shutdown period for any affected source that is subject to a standard during startup or shutdown that differs from the standard applicable at other times, and the quantity of feed and fuel used during the startup and shutdown period.  H. Records of the date, time and duration of each malfunction that causes an affected source to fail to meet an applicable standard.  1. If there was also a monitoring malfunction, the date, time and duration of the monitoring malfunction.  2. The record must list the affected source or equipment, an estimate of the volume of each regulated pollutant emitted over the standard for which the source failed to meet a standard, and a description of the method used to estimate the emissions.	63.1355

No.	Fe	derally Enforceable Conditions Applicable to Sources Subject to 40 CFR 63, Subpart LLL	Regulations
		3. Records of actions taken during periods of malfunctions to minimize	
		emissions in accordance with §63.1348(d), including corrective actions to	
		restore malfunctioning processes and air pollution control and monitoring	
		equipment to its normal or usual manner or operation must also be kept.	
	I.	For each exceedance from an emissions standard or established operating	
		parameter limit, records of the date, duration and description of each exceedance	
		and the specific actions taken for each exceedance including inspections,	
		corrective actions and repeat performance tests and the results of those actions.	

# **Kiln Summary Tables**

NSR Requirements					
Parameter	Limit		Control Equipment	Monitoring	
PM	19.27	lb/hr	Baghouse	CPMS	
$PM_{10}$	19.27	lb/hr	Baghouse, Lime Injection System (for mill-off operations)	CPMS	
VOC	17.24	lb/hr	N/A	THC CEMS	
CO	524.82	lb/hr	N/A	CEMS	
NO <sub>x</sub>	625.89	lb/hr	Low NO <sub>x</sub> Burners, SNCR	CEMS	
$SO_2$	102.30	lb/hr	Kiln Inherent Scrubbing and/or Lime Injection System	CEMS	
Clinker Production	1,006,000	tons/yr	N/A	Calibrated weigh scales, either directly weighing clinker produced or weighing kiln feed	
Tire Fuel Feed Rate	22	% of maximum feed rate of coal	N/A	Hourly recordkeeping while tires are being combusted in the kiln	
Wood Biomass as Kiln Fuel		e definition of clean mass under 40 CFR 241.2	N/A	Recordkeeping demonstrating that the biomass meets the definition of clean cellulosic biomass	

Consent Decree Requirements				
Parameter Limit (lb/ton clinker) Monitoring				
$NO_x$	2.5	CEMS		
$\mathrm{SO}_2$	0.4	CEMS		
Clinker Production Rate	N/A	Calibrated weigh scales, either directly weighing clinker produced or weighing kiln feed		

	SIP Requirements			
Parameter	Limit	Monitoring		
PM	For process weight rates of less than 30 tons/hour: $E=3.59 \ p^{0.62}$ For process weight rates equal to or greater than 30 tons/hour: $E=17.31 \ p^{0.16}$ Where: $E=$ emission rate in pounds/hour for all similar process units, and $p=$ process weight rate in tons/hour.	CPMS		
$SO_2$	1.8 lb/MMBTU	CEMS		

	SIP Requirements				
Parameter	Limit	Monitoring			
PM	For process weight rates of less than 30 tons/hour: $E=3.59~p^{0.62}$ For process weight rates equal to or greater than 30 tons/hour: $E=17.31~p^{0.16}$ Where: $E=$ emission rate in pounds/hour for all similar process units, and $p=$ process weight rate in tons/hour. $0.30~\text{lb/ton kiln feed}$	CPMS			
Opacity	20%	Recordkeeping, proper operation and maintenance of baghouse			

40 CFR 60, Subpart Y Requirements				
Parameter	Parameter Limit (%) Monitoring			
Opacity	Opacity 20 Recordkeeping, proper operation and maintenance of baghouse			

40 CFR 63, Subpart LLL Requirements				
Parameter	Parameter Emissions Limit		Monitoring	
PM	0.07 pounds per ton clinker produced	Site-specific Limit	CPMS	
D/F	If the average temperature at the inlet to the first PM control device is greater than 400°F: 0.2 ng/dscm (TEQ) corrected to 7% oxygen; or  If the average temperature at the inlet to the first PM control device is less than 400°F: 0.4 ng/dscm (TEQ) corrected to 7% oxygen	Kiln Exhaust Gas Temperature Limit	CMS	
Managari	55 pounds per million tons of clinker	Mercury	Integrated sorbent trap monitoring system	
Mercury	produced, based on a 30-day rolling average and corrected for moisture	Exhaust Gas Flow Rate	CMS	
THC	Based on a 30-day rolling average:  24 ppmvd corrected to 7% oxygen, measured as propane; or  12 ppmvd corrected to 7% oxygen for total organic HAP		CEMS	
HCl	3 ppmvd corrected to 7% oxygen, based on a 30-day rolling average	SO <sub>2</sub>	CEMS	

Operating Requirements				
Operating Requirement	Citation	Summary		
Startup/Shutdown	· 63.1346(g)	<ul> <li>During periods of startup and shutdown:         <ul> <li>Use clean fuel, as specified, until the kiln reaches 1200°F</li> <li>Combustion of primary fuel may commence when the kiln reaches 1200°F</li> <li>All control devices controlling PM and HAPs must be operational</li> </ul> </li> </ul>		
Clinker Production Monitoring	63.1348(b)(1)(iv) 63.1348(b)(2) 63.1350(d)	Determine hourly clinker production by operating permanent weigh scale systems to measure the amount of clinker produced or the amount of feed to the kiln		
Lime Injection System	· 18.2.4	Operate a lime injection system to control PM <sub>10</sub> during mill-off conditions		
CEMS Performance Requirements	<ul> <li>18.2.4</li> <li>Consent Decree No. 5:19-cv- 05688</li> <li>Performance Specifications of 40 CFR 60</li> <li>40 CFR 75, Subpart D</li> </ul>	Operate CEMS in accordance with the performance specifications of 40 CFR 60 and the missing data substitution procedures of 40 CFR 75, Subpart D, as applicable for compliance with NSR and with the Consent Decree		
Low NO <sub>x</sub> Burners & SNCR	· 10.1.3 · 10.1.9 · 52.50(d)	<ul> <li>Operate low-NO<sub>x</sub> burners and a SNCR system for the kiln from May 1<sup>st</sup> through September 30<sup>th</sup></li> <li>Continuously employ SNCR technology during ozone sease by injecting either ammonia or urea</li> <li>Operate the SNCR according to good engineering practice all times to minimize NO<sub>x</sub> while simultaneously minimizin NH<sub>3</sub> emissions</li> <li>Install, operate, and maintain a system to continuously monitor and record reagent flow</li> </ul>		

# **Federally Enforceable Conditions for Kiln**

Emissions Unit No.	<b>Emissions Unit Description</b>	Control Device
005	Pre-heater Rotary Kiln with Low-NO <sub>X</sub> Burners, In-Line Coal Mill, In-Line Raw Mill, Conditioning Tower, and 2 Cyclones	270,815 SCFM Baghouse with Lime Injection and SNCR System

No.		Feder	ally Enforceable Conditions for Kiln	Regulations
1.	Applicabilit The emission established p Review. The 6.4, "Process Combustion, Rules and Re for Hazardon Industry," 40 Cement Plan Preparation a	6.1 6.4 6.10 7.1 10.1 18.2.4 60.250(a) 60.60 63.1340 4-07-0290-02 Consent Decree 5:19-cv-05688		
			New Source Review Requirements	
2.	Kiln Emissi The kiln exh Pollutant		ot exceed the emissions rates included in the table below.  Measurement Method	2.4 14.1.2 18.2.4
	PM	19.27 lb/hr 19.27	Performance testing by EPA Method 5 of 40 CFR 60, Appendix A every 5 years Performance testing by EPA Methods 201A and 202	18.5.3 4-07-0290-02
	PM <sub>10</sub>	19.27 lb/hr 17.24	of 40 CFR 51, Appendix M every 5 years  Based on an average of 3 tests runs by EPA Method	
	VOC	lb/hr 524.82	25A of 40 CFR 60, Appendix A  Based on a 30-day rolling average, as measured by	
	CO	lb/hr 625.89	CEMS  Based on a 30-day rolling average, as measured by	
	NO <sub>x</sub> SO <sub>2</sub>	lb/hr 102.30	CEMS  Based on a 30-day rolling average, as measured by	
	The permitte limits by cor	nplying with	CEMS harily demonstrate compliance with the PM and PM <sub>10</sub> h the limits under 40 CFR 63, Subpart LLL and with the er Consent Decree 5:19-cv-05688.	
3.	Annual Clir			18.2.4
	The maximu month rollin calculate and production radata obtained Subpart LLL shall report a maintain rec	m clinker p g total. With I maintain reate to determ I from the case will be used in violation word of the I	roduction is limited to 1,006,000 tons per year as a 12-nin the first two weeks of each month, the permittee shall ecord of a 12-month rolling total of the clinker nine compliance with the production limit. Monitoring linker production monitoring required under 40 CFR 63, ed to calculate the 12-month rolling total. The permittee within 2 working days of discovery. The permittee shall 2-month rolling total.	18.5.3 4-07-0290-02
4.	Automotive The permitted by an equivathe permitted	Tire Feed ee shall replated the quantity e combusts to e quantity of		18.2.4 18.5.3 4-07-0290-01

No.	Federally Enforceable Conditions for Kiln	Regulations
5.	Wood Biomass as Kiln Fuel	18.2.4
	The permittee may use wood biomass, consisting of wood shavings and wood	18.5.3
	bark, that meets the definition of clean cellulosic biomass under 40 CFR §241.2	241.2
	as fuel for the kiln. Records, such as chemical composition data or elemental	
	analysis, demonstrating that the biomass satisfies the definition under §241.2	
	must be maintained.	
6.	Compliance Determination for PSD Avoidance VOC Emissions Limit	18.2.4
	The source permitted herein shall have a VOC emission rate not to exceed 17.24	18.5.3
	lb/hr based on the average of three test runs. The Department may require, at any	
	time, a source emissions test to determine the VOC emissions rate, according to	
	EPA Reference Method 25A of 40 CFR 60, Appendix A. For performance tests	
	conducted to determine compliance with the total organic HAP emissions limit	
	under 40 CFR 63, Subpart LLL, the report shall include the VOC emissions in	
	pounds per hour for comparison to the VOC emissions limit.	
7.	CO, NO <sub>X</sub> and SO <sub>2</sub> Emissions Monitoring for PSD Avoidance Limit	18.2.4
	The permittee shall install, calibrate, maintain and continuously operate a	18.5.3
	continuous emissions monitor (CEM) located at the outlet of the baghouse to	
	continuously monitor emissions of CO, NO <sub>X</sub> and SO <sub>2</sub> for compliance with the	
	emissions limitations in Condition No. 2. Each CEMS shall be installed	
	maintained and operated as required by Performance Specifications of 40 CFR	
	60, Appendix B and the quality assurance procedures of 40 CFR 60, Appendix F.	
8.	Performance Specifications and Procedures for CEMS	18.5.3
	The CEMS required by Condition No. 7 shall meet all specifications and	4-07-0290-02
	procedures of 40 CFR 75 and will be certified and maintained in accordance with	Consent Decree
	40 CFR 75. In addition, each of the CEMS shall undergo a relative accuracy test	5:19-cv-05688
	audit (RATA). The RATA must be conducted at least once every four calendar	40 CFR 75
	quarters.	40 CFR 60,
	A. NO <sub>X</sub> and SO <sub>2</sub> CEMS must use the missing data substitution procedures of	Appendix F
	Part 75, Subpart D per the Consent Decree.	
	B. For the CO CEMS, the permittee shall use the following missing data	
	substitution procedures of Part 75, Subpart D with the following additional	
	provisions because Part 75 does not provide for CO monitors:	
	1. The data filling process is split into three tiers based on the CEM	
	availability of the continuous monitor, and is derived from 40 CFR	
	75.32. Equation 1 and 2 below show the calculation, with one method	
	for the initial 8,760 unit operating hours (Eqn. 1) and a second method	
	for afterward (Eqn. 2). Note that the availability calculation is	
	performed separately for each monitor.	
	% Availability	
	$= \frac{Total\ unit\ operating\ hours\ for\ which\ data\ were\ recorded\ since\ certification}{Total\ unit\ operating\ hours\ since\ certification} $ (1)	
	Total unit operating hours since certification	
	% Availability	
	$= \frac{Total\ unit\ operating\ hours\ for\ which\ data\ were\ recorded\ in\ previous\ 8,760\ unit\ operating\ hours}{(2)}$	
	8,760	
	2. Using the availability, the data filling is then split into three routines depending on the percent availability, with subcategories for the two of	
	the routines.	
	0 1 0 70	
	i. less than or equal to 24 hours of consecutive missing data	
	ii. greater than 24 hours of consecutive missing data	
	b. Greater than or equal to 90%, but less than 95%	
	i. less than or equal to 8 hours of consecutive missing data	
	ii. greater than 8 hours of consecutive missing data	
	c. Less than 90%	

No.	1	Federally Enforce	able Conditions for	· Kiln	Regulations
		e filling routine is	data filling for the c closely modeled on	onditions described the data filling routines	
	Trigger (	Condition	Calculati	ion Routines	
	Monitor data availability (%)	Duration (N) of monitor outage (hr)	Method	Lookback period (monitor operating hours)	
	95 or more	N <= 24 N > 24	Arithmetic average 90th percentile	2,160 2,160	
	90 or more, but below 95	N<= 8 N > 8	Arithmetic average 95 <sup>th</sup> percentile	2,160 2,160	
	Below 90	N > 0	Maximum monitored value	2,160	
	no more than 19.22 according to the fo A. Operate the sy 1. Lime injection compliant cv-05688 specific of B. Maintain recompliant and shall shall shall be shall be conshall be conshall be shall be the shall be shall	Ib/hr as required blowing requirements the stem continuously between the SO <sub>2</sub> emand/or the current perating limit established of the hourly quests shall be conducted the hourly quests shall be conducted by the standard of the hourly quests shall be measured by Elinclude particulate as the shall be measured by Elinclude particulate be measured by Elinclude particulate be measured by Elinclude particulate and the was measured by Elinclude performance to that was measured by Elinclude performance to the minimum I be lime feed set pois shall operate and residuate and res	by the NSR/PSD avents: during mill-off conduring mill-on condurission limits under C 30-day rolling averablished under Subpartuantity of lime inject acted as follows: mine compliance with every 5 years. PA Method 5 of 40 C matter from the "batt half." EPA Methods 201A erformance test, the easured in tons per harating parameter limit performance testing voidance limit. e and record the average ich the emissions limit est. The highest lime during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit lime injection rate during the mill-off PPM <sub>10</sub> emissions limit limi	ditions. itions to demonstrate Consent Decree 5:19- age SO <sub>2</sub> ppmvw site- rt LLL. ted during kiln  th the NSR/PSD  CFR 60, Appendix A, ck half' of the sample and 202 of 40 CFR 51, lime injection rate and our. it for the lime injection after demonstrating age lime injection rate inits are met during the enits are met dur	18.5.3 4-07-0290-03

No.	Federally Enforceable Conditions for Kiln	Regulations
	E. The permittee may elect to conduct additional 3-hour mill-off PM <sub>10</sub> performance tests in an effort to reduce the quantity of lime injected. At no time may the trial lime injection rate be reduced more than 25% below the lime injection rate than that used during the last successful test demonstration.	
10.	NSR Recordkeeping Requirements  The permittee shall maintain the following records to demonstrate compliance with the applicable requirements:  A. Results of performance tests;  B. 12-month rolling total of clinker production rate;  C. Hourly records of fuel feed rates when combusting tires;  D. Records demonstrating wood used as kiln fuel satisfies the definition of clean cellulosic biomass under 40 CFR 241;  E. Records of calibrations for lime flow meter;  F. Records and reports as required by appendix F of 40 CFR 60 and the performance specifications of 40 CFR 60; and  G. Results of annual RATAs.	1.9 18.5.3
	Consent Decree 5:19-cv-05688 Requirements	
11.	Consent Decree in Case 5:19-cv-05688-JFL, Document 2-1, Filed 12/03/19  The source of these requirements is the Consent Decree for the case styled  "UNITED STATES OF AMERICA, STATE OF INDIANA, STATE OF IOWA,  STATE OF MARYLAND, STATE OF NEW YORK, PENNSYLVANIA  DEPARTMENT OF ENVIRONMENTAL PROTECTION, JEFFERSON COUNTY  BOARD OF HEALTH, AND BAY AREA AIR QUALITY MANAGEMENT  DISTRICT (Plaintiffs), v. LEHIGH CEMENT COMPANY LLC and LEHIGH  WHITE CEMENT COMPANY, LLC,) (Defendants)" as entered in the United  States District Court, Eastern District of Pennsylvania on December 3, 2019.  Specifically, Condition 43 of the Consent Decree requires the permittee to apply for:  " the permit or approval, or the modification of an existing permit or approval, to require compliance with the following: a. all applicable  30-Day Rolling Average Emission Limits; b. all Continuous Operation or other operating requirements; c. all monitoring requirements of this Consent Decree, including those in Sections V (NOX Control  Technology, Emission Limits and Monitoring Requirements) and VI (SO2 Control Technology, Emission Limits and Monitoring  Requirements) of this Decree and relevant definitions from Section III (Definitions), such as the definition of 30-Day Rolling Average  Emission Limit; d. all requirements included in Section IX (Prohibition on Netting Credits or Offsets from Required Controls); and e. all compliance methods imposed by this Consent Decree."	Consent Decree 5:19-cv-05688

No.		Regulations			
12.	commence c	ee shall compontinuous op operation by	peration of the following of	issions limits for the kiln and control technology during all ecified in Tables 2 and 3 of the	Paragraphs 12, 13, 20, and 21 of Consent Decree 5:19-cv-05688
	Pollutant	Limit	<b>Control Technology</b>	Compliance Demonstration	
	NOx	2.5 lb/ton clinker	SNCR	Based on a 30-day rolling average, as measured by CEMS	
	SO <sub>2</sub>	0.4 lb/ton clinker	Kiln Inherent Scrubbing and/or Lime Injection	Based on a 30-day rolling average, as measured by CEMS	
13.	The permittee either one of A. Install, of measure of mass be main B. Install, of measure mass perfect percent If the permit the daily clir production reclinker production This ratio she changes at cleshall not be a estimated.	te shall determent the two follocalibrate, main and record was per hour. The tained within the tailbrate, main and record was record was accuracy. The saccuracy are chooses to the production determent ould be updated in the track applied retrosaction of the track applied retrosaction determent.	on Rate Monitoring mine and record the daily owing methods: intain, and operate a perm weight rates of the amoun e system of measuring ho a ± 5 percent accuracy; or intain, and operate a perm weight rates of the amoun ystem of measuring feed the methodology set forth on rates, the permittee sh iln-specific feed-to-clinke inted for accounting purp ted no less frequently tha iliation, the new ratio mu	r clinker production rates by manent weigh scale system to not of clinker produced in tons purly clinker production must manent weigh scale system to not of feed to the kiln in tons of must be maintained within ± 5  in Item B above to determine all calculate the hourly clinker her ratio based on reconciled hoses and recorded feed rates. In once per month. If this ratio list be used going forward, but reproduction rates previously	Paragraph 16 of Consent Decree 5:19-cv-05688
14.	CEMS Requirements  The permittee shall install, certify, calibrate, maintain, and operate a NO <sub>x</sub> and a SO <sub>2</sub> CEMS at each stack which collects emissions from the kiln in accordance with the applicable requirements of 40 CFR 60 to demonstrate compliance with the NO <sub>x</sub> and SO <sub>2</sub> limits established in Consent Decree 5:19-cv-05688. Except during CEMS breakdowns, repairs, calibration checks, zero span adjustments, and any stack repairs that require the removal and recalibration of the CEMS, the CEMS shall be operated at all times during kiln operation. NO <sub>x</sub> and SO <sub>2</sub> emission rates from the kiln stack shall be monitored and recorded in units of ppm, pounds per hour, and pounds per ton clinker. During any time when the CEMS is inoperable or otherwise not measuring emissions of NO <sub>x</sub> and/or SO <sub>2</sub> from the kiln, the permittee shall apply the missing data substitution procedures				Paragraphs 15, 17 through 19, and 26 through 30 of Consent Decree 5:19-cv- 05688
15.	If the permit subsequent t recommenci	nts for Temp tee temporar o the effectiv ng kiln opera	operary Cessation of Kilmily ceases kiln operation for date of Consent Decree tion, the permittee must be	for 24 consecutive months e 5:19-cv-05688, then prior to	Paragraph 39 of Consent Decree 5:19-cv-05688
16.	Prohibition The permitted netting reduced.	on Netting (ee shall neither tions, as em	Credits or Offsets from er generate nor use any C issions offsets, or to apply		Section IX of Consent Decree 5:19-cv-05688

No.	Federally Enforceable Conditions for Kiln	Regulations
	24-month period selected by the permittee shall be adjusted downward to exclude any portion of the baseline emissions that would have been eliminated as CD emissions reductions had the permittee been complying with Consent Decree 5:19-cv-05688 during that 24-month period. Any plant-wide applicability limits (PALs) or PAL-like limits that apply to emissions units addressed by Consent Decree 5:19-cv-05688 must be adjusted downward to exclude any portion of the baseline emissions used in establishing such limit(s) that would have been eliminated as CD emissions reductions had the permittee been complying with Consent Decree 5:19-cv-05688 during such baseline period. This prohibition is not intended to prohibit the permittee from seeking to do any of the following:  A. Use or generate emission reductions from emission units that are covered by Consent Decree 5:19-cv-05688 to the extent that the proposed emission reductions represent the difference between CD emissions reductions and more stringent control requirements that the permittee may elect to accept for those emissions units in a permitting process;  B. Use or generate emission reductions from emissions units that are not subject to an emission limitation or control requirement pursuant to Consent Decree 5:19-cv-05688; or  C. Use CD emissions reductions for compliance with any rules or regulations designed to address regional haze or the non-attainment status of any area (excluding PSD and non-attainment NSR rules, but including, for example, Reasonably Available Control Technology (RACT) rules) that apply to the facility; provided, however, that the permittee shall not be allowed to trade or sell any CD emissions reductions.	
17.	Violation Reporting Requirements  A violation includes failing to perform any obligation required by the terms of the Consent Decree, including any work plan or schedule approved under the Consent Decree, according to all applicable requirements of the Consent Decree and within the specified time schedules established by or approved under the Consent Decree. Violation of an emission limit that is based on a 30-Day rolling average is a violation on every day on which the average is based. The permittee reserves the right to contest whether there has been a violation in accordance with Section XVI (Dispute Resolution) of the Consent Decree. If the permittee violates, or has reason to believe that it may violate, any requirement of the Consent Decree, the permittee shall notify EPA and the Department of such violation and its likely duration, in writing, within ten (10) business days of the day that the permittee first becomes aware of the violation, including the following information:  A. Explanation of the violation's likely cause and of the remedial steps taken, or to be taken, to prevent or minimize such violation and to mitigate any adverse effect of such violation.  B. The permittee shall investigate the cause of the violation and shall then submit an amendment to the report required under Paragraph 54 of the Consent Decree, including a full explanation of the cause of the violation, within thirty (30) days of the day that the permittee becomes aware of the cause of the violation.  C. This requirement does not relieve the permittee of its obligation to provide the notice required by Section XIV of the Consent Decree (Force Majeure) if the permittee contends a Force Majeure event occurred.  Whenever any violation of the Consent Decree, or of any applicable permits required under the Consent Decree, or any other event affecting the permittee's performance under the Consent Decree, or the performance of the source permitted herein, may pose an immediate threat to the public health or welfare or the environment	Paragraphs 55 through 56 and 61 of Consent Decree 5:19-cv- 05688

No.	Federally Enforceable Conditions for Kiln	Regulations
	electronic or facsimile transmission as soon as possible, but no later than twenty-four (24) hours after the permittee first knew, or should have known, of the violation or event. This procedure is in addition to the requirements set forth in Paragraph 55 of the Consent Decree. All reports for the Consent Decree shall be submitted to EPA and the Department, as designated in Section XX of the Consent Decree. Each report submitted by the permittee under Section XII of the Consent Decree shall be signed by an official of the submitting party and including the certification under Paragraph 58 of the Consent Decree. This certification requirement does not apply to emergency or similar notifications where compliance would be impractical.	
18.	<ul> <li>Reporting Requirements</li> <li>Within thirty days after the end of each half calendar year after the effective date, until termination of the Consent Decree pursuant to Section XXIV, the permittee shall submit a semi-annual report to EPA and the Department for the immediately preceding half calendar year period that shall:</li> <li>A. Identify any and all dates on which the permittee has installed or described the progress of installation of each control technology required for the kiln under Section V and Section VI and describe any problems encountered or anticipated during such installation, together with implement or proposed solutions.</li> <li>B. Identify any and all dates on which the permittee has completed installation of or describe the progress of installation of each CEMS required under Section V.B and Section V.C and describe any problems encountered or anticipated during such installation, together with implemented or proposed solutions.</li> <li>C. Provide, in electronic format and able to be manipulated with Microsoft Excel, all CEMS data collected for the kiln, reduced to 1-hour averages, in accordance with 40 CFR §60.13(h)(2), including an explanation of any periods of CEMs downtime together with any missing data for which missing data substitution procedures were applied.</li> <li>D. Demonstrate compliance with all applicable 30-day rolling average emission limits, including but not limited those in Section V and Section VI.</li> <li>E. Provide a complete description and status of all actions that the permittee has undertaken to comply with each of the appendices of the Consent Decree.</li> <li>F. Describe the status of permit applications and any proposed SIP revisions required under the Consent Decree.</li> <li>G. Describe any noncompliance with the requirements of the Consent Decree and an explanation of the violations likely cause and of the remedial steps taken, or to be taken, to prevent or minimize such violation.</li> <li>All reports for the Consent Decree shall be submitted</li></ul>	Paragraphs 54 and 57 through 60 of Consent Decree 5:19-cv- 05688
10	apply to emergency or similar notifications where compliance would be impractical.	D 1 00
19.	Records Retention Until five years after the termination of the Consent Decree, the permittee shall retain, and shall instruct its contractors and agents to preserve, all non-identical copies of all documents, records, or other information (including documents, records, or other information in electronic form) in its or its contractors' or	Paragraphs 88 through 91 of Consent Decree 5:19-cv-05688

No.	Federally Enforceable Conditions for Kiln	Regulations
No.	agents' possession or control, or that come into its or its contractors' or agents' possession or control, and that relate in any manner to the permittee's performance of its obligations under the Consent Decree. This information-retention requirement shall apply regardless of any contrary corporate or institutional policies or procedures. At any time during this information-retention period, upon request by EPA or the Department, the permittee shall provide copies of any documents, records, or other information required to be maintained by it under Paragraph 88 of the Consent Decree. At the conclusion of the information-retention period provided in Paragraph 88, the permittee shall notify EPA and the Department at least ninety (90) days prior to the destruction of any documents, records, or other information subject to the requirements of Paragraph 88 of the Consent Decree and, upon request by EPA or the Department, the permittee shall deliver any such documents, records, or other information to EPA or the Department. The permittee may assert that certain documents, records, or other information is privileged under the attorney-client privilege or any other privilege recognized by federal law. If the permittee asserts such a privilege, it shall provide the following:  A. Title of the document, record, or information;  B. Date of the document, record, or information;  C. Name and title of each author of the document, record, or information;  D. Name and title of each addressee and recipient;  E. Description of the subject of the document, record, or information; and F. Privilege asserted by the permittee.  However, no documents, records, or other information created or generated pursuant to the requirements of the Consent Decree shall be withheld on grounds of privilege. The permittee may also assert that information required to be provided is protected as Confidential Business Information ("CBI") under 40 CFR. Part 2 and Section 1.6.8 of the Rules and Regulations. The Consent Decree in no way limits or affects	Regulations
	imposed by applicable federal or state laws, regulations, or permits.	
	State Implementation Plan Requirements	<b>I</b>
20.	SIP Applicability The emissions unit permitted herein is subject to the opacity limit of Part 6.1, the particulate matter emissions limit of Part 6.4, the sulfur oxides emissions limit of Part 7.1, and the particulate matter emissions limit of Part 6.10 of the Rules and Regulations.  Visible Emissions Postriction	6.1 6.4 7.1 6.10
21.	<u>Visible Emissions Restriction</u> The emissions unit permitted herein is subject to a 20% opacity limit, except as allowed by Section 6.1.1(b) of the Rules and Regulations.	6.1 18.2.4
22.	Particulate Matter Emissions Limit  The permittee shall demonstrate compliance with the particulate matter emissions limits under Part 6.4 and Part 6.10 by complying with the particulate matter emissions limit under 40 CFR 63, Subpart LLL.	6.4 6.10 14.1.2 18.2.4
23.	Sulfur Oxides Emissions Limit  The permittee shall demonstrate compliance with the sulfur oxides emissions limit under Part 7.1 of the Rules and Regulations by complying with the SO <sub>2</sub> limit under Consent Decree 5:19-cv-05688.	7.1 18.2.4 Consent Decree 5:19-cv-05688

No.	Federally Enforceable Conditions for Kiln	Regulations
24.	NOx Equipment Standard for Ozone Season	10.1.3
	The permittee shall not operate the kiln during May 1 <sup>st</sup> through September 30 <sup>th</sup> ,	10.1.9
	unless low-NO <sub>X</sub> burners and Selective Non-Catalytic Reduction (SNCR)	52.50(d)
	technology have been installed and are operated. The requirements of Part 10.1	
	of the Rules and Regulations shall not apply to periods of scheduled maintenance	
	activities that affect NO <sub>x</sub> emissions.	
25.	SNCR Requirements for NO <sub>X</sub> Emissions During Ozone Season	10.1.3
	A. During each ozone season, the permittee shall continuously employ SCNR	52.50(d)
	by injecting either ammonia or a urea solution at a site where the	SIP Contingency
	temperature of the process gas is conducive for the reduction reactions to	Measure from 4-
	occur.	07-0290-03
	B. The SNCR system shall be operated according to good engineering practices	Conditions 45-
	and shall, at all times, be operated in a manner so as to minimize the	47, approved
	emissions of NO <sub>X</sub> while simultaneously minimizing excess ammonia (NH <sub>3</sub> )	7/30/2009 at 74
	emissions.	FR 37945
	C. The permittee shall install, operate, and maintain a system to continuously	
	monitor and record reagent flow to the SNCR system.	
	D. If the reagent monitoring system indicates that there is no reagent flow to the	
	SNCR and the kiln system is in stable operation and the minimum process	
	gas temperature for reagent injection has been reached, the permittee shall,	
	within one hour, initiate attempts for corrective action to return the reagent	
	injection system to service. After the discovery of no reagent flow, the	
	permittee shall re-establish flow no later than 24 hours of said event.	
26.	Ozone Season Reporting Requirements to ADEM	10.1.4
	The permittee shall submit data, electronically and in a format prescribed and	10.1.6
	provided by ADEM, which reports the total NO <sub>x</sub> emissions from May 1 <sup>st</sup> through	18.5.3
	September 30 <sup>th</sup> of each year, as follows:	
	A. For each kiln, by March 31st of the calendar year following the emission	
	year being reported, the data specified in 40 CFR §§51.122(c)(1) and (2)	
	must be submitted to ADEM.	
	B. For each kiln, every three years, by March 31st of the calendar year	
	following the emission year being reported, the data specified in 40 CFR	
	§§51.122(c)(3) must be submitted to ADEM.	
	C. By December 31st of each year, written certification that compliance with	
	the requirements of Section 10.1.3 of the Rules and Regulations has been	
	maintained during that year's five-month period of May 1st through	
	September 30 <sup>th</sup> must be submitted to ADEM. The methods of determining	
	that this compliance has been maintained shall be as specified in this permit.	
	D. Within 30 days of the end of each ozone season, the permittee shall report to	
	the Department the total quantity of NO <sub>x</sub> emitted from the kiln stack. This	
	report shall include list of times when the SNCR did not operate while the	
	kiln was operating. For each instance when the SNCR did not operate, the	
	permittee shall include the reason the SNCR did not operate, as well as the	
	corrective action(s) taken to return it to service.	
27.	Ozone Season Recordkeeping Requirements	10.1.7
	The permittee shall maintain records for May 1 <sup>st</sup> through September 30 <sup>th</sup> of each	10.1.8
	year that include the data as follows:	
	A. The date, time, and duration of any startup, shutdown, or malfunction in the	
	operation of the cement kiln or its emissions monitoring equipment or of any	
	scheduled maintenance activity that affects NO <sub>x</sub> emissions or emissions	
	monitoring;	
	B. The results of any compliance testing; and	
	C. Other data required by this permit.	

No.	Federally Enforceable Conditions for Kiln	Regulations
	These records shall be retained on-site for a minimum of 2 years following the calendar year for which they are made and shall be made available to ADEM for review upon request.	
28.	SIP Recordkeeping Requirements	1.5.15
26.	The permittee shall maintain, as a minimum, the following records to demonstrate compliance with the applicable requirements and to serve as basis for emissions calculations:	1.9.2 18.5.3
	A. For annual production data reporting and emissions calculations:	
	Quantity and average moisture content of kiln feed (tons);	
	2. Quantity of clinker produced (tons);	
	3. Quantity of fuels used by type;	
	4. Quantity of lime injected;	
	5. Quantity of aqueous ammonia (or urea) injected;	
	6. Total hours of operation of the kiln;	
	7. Total hours of operation of the Loesche (raw) mill;	
	8. Mill-On hours of operation of the kiln; and	
	9. Mill-Off hours of operation of the kiln.	
	B. For demonstrating compliance with the applicable requirements.	
	1. Performance test results; and 2. Personal and reports as required by Port 10.1 of the Pules and	
	<ol><li>Records and reports, as required by Part 10.1 of the Rules and Regulations.</li></ol>	
	NSPS Requirements	
29.		60.14
29.	40 CFR 60, Subpart F Applicability 40 CFR 60, Subpart F applies to kilns located at Portland Cement plants that	60.15
	commenced construction or modification after August 17, 1971. Pursuant to	60.60
	§60.62(a)(2), kilns that use a PM CPMS are not subject to the opacity limit under	60.62(a)(2)
	Subpart F. Pursuant to §60.62(d), sources subject to Subpart F that are in	60.62(a)(3)
	compliance with a more stringent emissions limit or requirement under Title 40	60.62(a)(4)
	are not subject to the less stringent requirement. If the kiln is modified or	60.62(d)
	reconstructed, as defined under §60.14 and §60.15, it will become subject to the	
	NO <sub>x</sub> and SO <sub>2</sub> limits under Subpart F for new sources and revision of the Permit	
	could be required. The permittee shall notify the Department prior to any	
	reconstruction, identifying any applicable requirements which are triggered by	
	the change to allow the Department to determine if reopening and revision of the	
	permit is required. No permit shield will apply for requirements triggered by modification or reconstruction.	
30.	40 CFR 60, Subpart Y Applicability	60.14
50.	40 CFR 60, Subpart Y, "Standards of Performance for Coal Preparation and	60.15
	Processing Plants," applies to coal preparation and processing plants that process	60.250(a)
	more than 181 megagrams (200 tons) of coal per day. For coal processing and	60.250(b)
	conveying equipment, storage systems, and transfer and loading systems that	60.254(a)
	commenced construction before April 28, 2008, the permittee shall not cause	60.254(b)
	gases which exhibit an opacity of 20 percent or greater to be discharged into the	60.254(c)
	atmosphere. If the in-line coal mill and associated handling and transfer	
	equipment is modified or reconstructed, as defined under §60.14 and §60.15,	
	additional requirements under Subpart Y could become applicable and revision	
	of the Permit could be required. The permittee shall notify the Department prior	
	to any reconstruction, identifying any applicable requirements which are triggered by the change to allow the Department to determine if reopening and	
	revision of the permit is required. No permit shield will apply for requirements	
	10 15151 of the permit is required. No permit sincid will apply for requirements	

No.		Federally Enforceable Conditions for Kiln	Regulations
		40 CFR 63, Subpart LLL Requirements	
31.	For the emissic Subpart LLL is associated preh existing source	bpart LLL Applicability ons unit permitted herein, the affected source under 40 CFR 63, each kiln located at a Portland cement plant, including any heaters, inline raw mills, and inline coal mills. The kiln is an under Subpart LLL, as construction commenced before May 6, is not been reconstructed since.	63.1340(a) 63.1340(b)(1) 63.1340(b)(3) 63.1341 63.1342
32.	that the work p	ect to the following standards at all times of operation, except ractices of §63.1346(g) apply during periods of startup and	63.1343 63.1345 63.2 18.5.3
	Parameter	Limit	
	PM D/F	O.07 pounds per ton clinker produced  If the average temperature at the inlet to the first PM control device is greater than 400°F: 0.2 ng/dscm (TEQ) corrected to 7% oxygen; or  If the average temperature at the inlet to the first PM control device is less than 400°F: 0.4 ng/dscm (TEQ) corrected to 7% oxygen	
	Mercury	55 pounds per million tons of clinker produced, based on a 30-	
	(Hg)	day rolling average and corrected for moisture	
	THC	Based on a 30-day rolling average:  24 ppmvd corrected to 7% oxygen, measured as propane; or  12 ppmvd corrected to 7% oxygen for total organic HAP	
	HCl	3 ppmvd corrected to 7% oxygen, based on a 30-day rolling average	
	operating days combine the constructed, to applicable, and limits, and revisithe Departments with determine if requirements will apply for requirements.	riod means all operating hours within 30 consecutive kiln excluding periods of startup and shutdown. For existing kilns that hall mill exhaust with the kiln exhaust and send the combined PM control device as a single stream, an alternative PM emission d by Equation 1 of §63.1343(b)(2), may be met. If the kiln is the emission limits for a new kiln under Subpart LLL will become performance testing to demonstrate compliance with the new sion to the Permit would be required. The permittee shall notify the prior to any reconstruction, identifying any applicable which are triggered by the change to allow the Department to opening and revision of the permit is required. No permit shield equirements triggered by modification or reconstruction.	
33.	Startup and S During periods requirements: A. Use any or synthetic r ultra-low s 1200°F. B. Combustic temperatur C. All air poli startup and §63.1348(	hutdown Requirements of startup and shutdown, the permittee shall meet the following ne or combination of the following clean fuels: natural gas, natural gas, propane, distillate oil, synthesis gas (syngas), and nulfur diesel (ULSD) until the kiln reaches a temperature of on of the primary kiln fuel may commence once the kiln re reaches 1200°F. lution control devices must be turned on and operating during al shutdown, except as allowed by §63.1346(g)(3) and	63.1346(g) 63.1348(b)(9) 63.1555

No.	Federally Enforceable Conditions for Kiln	Regulations
34.	Clinker Production Monitoring Requirements  The permittee shall determine the hourly production rate of clinker, according to the requirements of §63.1350(d), as follows:  A. Determine hourly clinker production by one of two methods:  1. Install, calibrate, maintain, and operate a permanent weigh scale system to measure and record weight rates in tons-mass per hour of the amount of clinker produced. The system of measuring hourly clinker production must be maintained within ±5 percent accuracy; or  2. Install, calibrate, maintain, and operate a permanent weigh scale system to measure and record weight rates in tons-mass per hour of the amount of feed to the kiln.  a. The system of measuring feed must be maintained within ±5 percent accuracy.  b. Calculate the hourly clinker production rate using a kiln-specific feed to clinker ratio based on reconciled clinker production determined for accounting purposes and recorded feed rates. Update this ratio monthly. If this ratio changes at clinker reconciliation, use the new ratio going forward, but it is not required to retroactively change clinker production rates previously estimated.  B. Determine, record, and maintain a record of the accuracy of the system of measuring hourly clinker production (or feed mass flow if applicable).  1. During each quarter of source operation, determine, record, and maintain a record of the ongoing accuracy of the system of measuring hourly clinker production (or feed mass flow).  C. If clinker production is measured directly, record the daily clinker production rates.  D. If kiln feed rates are measured and clinker production calculated, record the hourly kiln feed and clinker production rates.  E. Develop an emissions monitoring plan in accordance with §63.1350(p)(1) through (4).	63.1348(a)(iv) 63.1348(b)(1)(iv) 63.1350(d)
35.	Particulate Matter Requirements  A. Monitoring Requirements. The permittee shall demonstrate continuous compliance with the particulate matter emission standards of Subpart LLL, according to the requirements of §63.1350(b), as follows:  1. The permittee shall use a PM CPMS to establish a site-specific operating limit corresponding to the results of the performance test demonstrating compliance with the PM limit and use the CPMS to demonstrate continuous compliance with this operating limit.  a. To determine continuous compliance, PM CPMS output data for all periods when the process is operating and the PM CPMS is not out-of-control must be used.  i. All quality-assured hourly average data collected by the PM CPMS for all operating hours to calculate the arithmetic average operating parameter in units of the operating limit (milliamps) on a 30 operating day rolling average basis, updated at the end of each new kiln operating day, must be used. Equation 7 of §63.1349(b)(1)(v) shall be used to calculate the 30 operating day rolling average basis.  B. Performance Testing. Performance testing shall be conducted annually to reassess and adjust the site-specific operating limit in accordance with the test results.	63.1348(b)(2) 63.1349(b)(1) 63.1349(c) 63.1350(b) 63.1350(d)

No.			Federally Enforceable Conditions for Kiln	Regulations
	Performance testing shall be conducted according to Method 5 or			
			Method 5I of appendix A-3 of 40 CFR 60 and the procedures of	
		2	§63.1349(b)(1)(i) through (iv).	
		2.	The particulate matter collected in the impingers "back half" of the	
			Method 5 or Method 5I particulate sampling train need not be determined to demonstrate compliance with the PM standard. This shall	
			not preclude the Department from requiring a determination of the	
			"back half" for other purposes.	
		3.	The site-specific operating limit shall be established using the	
		٥.	procedures of §63.1349(b)(1)(i) through (iv), as appropriate, based upon	
			the PM emissions level determined through the performance test.	
		4.	Performance testing must be repeated if the analytical range of the	
			instrument is changed, if the instrument itself is replaced, or if any	
			principle analytical component of the instrument that would alter the	
			relationship of output signal to in-stack PM concentration.	
		5.	An existing operating limit must be verified or a new operating limit	
			established after each repeated performance test.	
		6.	Each performance test shall consist of at least three separate test runs	
			under the conditions that exist when the kiln is operating at the level	
			reasonably expected to occur.	
			a. Each test run shall be conducted to collect a minimum sample	
			volume of 1 dscm.	
			b. The time-weighted average of the results from the three consecutive runs shall be calculated and used to determine	
			consecutive runs shall be calculated and used to determine compliance.	
		7.	Testing must be conducted for raw mill on conditions and for raw mill	
		,.	off conditions.	
		8.	Performance tests must be completed no more than 13 months after the	
			previous performance test.	
	C.	Exc	ceedances. For any exceedance of the 30-process operating day PM	
			MS average value from the established operating limit, the permittee	
		mu		
		1.	Within 48 hours of the exceedance, visually inspect the APCD;	
		2.	If inspection of the APCD identifies the cause of the exceedance, take	
			corrective action as soon as possible and return the PM CPMS	
		2	measurement to within the established value.	
		3.	Within 30 days of the exceedance 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 or re-establish the PM CPMS operating limit within 45	
			days. It is not required to conduct additional testing for any exceedances	
			that occur between the time of the original exceedance and the PM	
			emissions compliance test required under §63.1350(b)(1)(iii).	
		4.	PM CPMS exceedances leading to more than four required performance	
			tests in a 12-month process operating period (rolling monthly)	
			constitute a presumptive violation of Subpart LLL.	
36.			and Furans Requirements	63.1346(a)
	A.		nitoring Requirements. The permittee shall demonstrate compliance	63.1346(b)
			ng a continuous monitoring system (CMS) that is installed, operated, and	63.1348(b)(4)
			intained to record the temperature of specified gas streams in accordance	63.1349(b)(3)
			th the requirements of §63.1350(g)(1) through (5), as follows:	63.1349(c)
		1.	Develop an emissions monitoring plan in accordance with	63.1350(g)
			§63.1350(p)(1) through (4).	

No.	Federally Enforceable Conditions for Kiln	Regulations
No.	<ol> <li>Install, calibrate, maintain, and continuously operate a CMS to continuously record the temperature of the exhaust gases from the kiln at the inlet to, or upstream of, the kiln PM control device (PMCD) PMCD.</li> <li>a. The temperature recorder response range must include zero and 1.5 times the average temperature established according to the requirements in §63.1349(b)(3)(iv).</li> <li>b. The calibration reference for the temperature measurement must be a National Institute of Standards and Technology calibrated reference, subject to approval by the Administrator.</li> <li>c. The calibration of all thermocouples and other temperature sensors must be verified at least once every three months.</li> <li>d. The required minimum data collection frequency must be one minute.</li> <li>e. Every hour, record the calculated rolling three-hour average temperature using the average of 180 successive one-minute average temperatures.</li> <li>f. When the operating status of the raw mill of the in-line kiln/raw mill is changed from off to on or from on to off, the calculation of the three-hour rolling average temperature must begin anew, without considering previous recordings.</li> <li>B. Operating Requirements. The permittee shall operate the kiln such that the temperature of the gas at the inlet to the kiln PMCD does not exceed the applicable temperature limit established during performance testing, conducted according to §63.1349(b)(3)(iv), except during periods of startup and shutdown when the temperature limit may be exceeded by no more than 10 percent. A separate operating parameter must be established for both mill-on and mill-off conditions.</li> <li>C. Performance Testing. Performance tests shall be conducted using Method 23 of appendix A-7 to 40 CFR 60 and the procedures of §63.1349(b)(3), as follows:</li> <li>1. Each performance test must consist of three separate runs conducted under representative conditions, for raw mill on and raw mill off conditions.</li></ol>	Regulations
	5. Performance tests are required at regular 30-month intervals.  Performance tests must be completed no more than 31 calendar months	
27	after the previous performance test.	62 1249/L\(C\
37.	THC Requirements  A. Monitoring Requirements. The permittee shall demonstrate compliance	63.1348(b)(6) 63.1349(b)(4)(v)
	with the total organic HAP emissions limit of Subpart LLL by conducting monitoring according to §63.1350(i)(1) and (2), as follows, or in accordance	63.1349(b)(7) 63.1350(i)

No.		Regulations	
No.		Federally Enforceable Conditions for Kiln  with PS8 or PS 8A of appendix B to 40 CFR 60 and comply with all requirements for CEMS found in Subpart A of 40 CFR 63.  1. Develop an emissions monitoring plan in accordance with §63.1350(p)(1) through (4).  2. THC must be measured either upstream of the coal mill or in the coal mill stack.  3. Each CEMS must be operated and maintained according to the quality assurance requirements in Procedure I of appendix F to 40 CFR 60.  4. For THC CEMS certified under PS 8A, conduct the relative accuracy test audits (RATA) required under Procedure I in accordance with PS 8, Sections 8 and 11 using Method 25A in appendix A to 40 CFR 60 as the reference method. The relative accuracy must meet the criteria of PS 8, Section 13.2.  a. For the purposes of conducting the accuracy and quality assurance evaluations for CEMS, the reference method is Method 25A of appendix A to 40 CFR 60.  5. Performance testing must be conducted using Method 25A of appendix A to 40 CFR 60 and repeated every 30 months.  6. All quality-assured hourly averaged data collected by the THC CEMS for all operating hours must be used to calculate the arithmetic average operating parameter in units of the operating limit (ppmww) on a 30 operating day rolling average basis, updated at the end of each new kiln operating day, using Equation 16 of §63.1349(b)(7)(xi).  Exceedances. If the THC level exceeds by 10 percent or more of the site-specific THC emissions limit, the permittee must:  1. As soon as possible but no later than 30 days after the exceedance, conduct an inspection and take corrective action to return the THC CEMS measurements to within the established value; and  2. Within 90 days of the exceedance or at the time of the 30 month compliance test, whichever comes first, conduct another performance test to determine compliance with the organic HAP limit and to verify or re-establish the site-specific THC emissions limit.  Performance Testing.  1. Performance tests are required at regular 30-month intervals.	Regulations 63.1350(j)

No.	Federally Enforceable Conditions for Kiln			
	weighted average of the THC levels measured during three raw mill on and three raw mill off tests.  e. At the same time the performance test is being conducted, a site-specific THC emissions limit must be determined by operating a THC CEMS in accordance with §63.1350(j).  i. The average THC concentration (as calculated from the recorded output) during the 3-hour test must be calculated.  ii. Establish the operating limit and determine compliance with it in accordance with §63.1349(b)(7)(iv), (vii), (viii), and (ix), as appropriate, based upon the average organic HAP emissions level determined through the performance test.  iii. Use Equation 15 of §63.1349(b)(7)(x) to calculate the operating limit as a weight average of the THC levels measured during raw mill on and raw mill off conditions.			
38. <b>M</b>	ercury Requirements	63.1348(a)(5)		
	<ul> <li>Monitoring Requirements. The permittee shall demonstrate compliance with the mercury emissions limit of Subpart LLL by conducting monitoring according to §63.1350(k), as follows:</li> <li>1. Develop an emissions monitoring plan in accordance with §63.1350(p)(1) through (4).</li> <li>2. Mercury must be measured upstream of the coal mill.</li> <li>3. Install and operate an integrated sorbent trap monitoring system in accordance with PS 12B of appendix B to 40 CFR 60.</li> <li>a. Each integrated sorbent trap monitoring system must be operated and maintained according to the quality assurance requirements in Procedure 5 of appendix F to 40 CFR 60.</li> <li>b. Relative accuracy testing must conducted at normal operating conditions with the raw mill on.</li> <li>c. Use the procedures of §63.1348(a)(5) to assign hourly mercury concentration values and to calculate rolling 30 operating day emissions rates.</li> <li>i. Sorbent trap change periods may be scheduled to any time of the day (i.e., the sorbent trap replacement need not be scheduled at 12:00 midnight nor must the sorbent trap replacements occur only at integral 24-hour intervals).</li> <li>d. During the RATA required under Procedure 5 of appendix F to 40 CFR 60, the permittee may apply the appropriate exception for sorbent trap section 2 breakthrough, as indicated in §63.1350(k)(3)(i) through (iv).</li> <li>e. A monitoring period of at least 24 hours but no longer than 168 hours in length may be used. A monitoring period that is a multiple of 24 hours should be used (except during relative accuracy testing as allowed in PS 12B).</li> </ul>	63.1348(b)(7) 63.1349(b)(5) 63.1350(k) 63.1350(n)		

No.	Federally Enforceable Conditions for Kiln	Regulations
	<ul> <li>b. The flow rate monitoring system must be designed to measure the exhaust flow rate over a range that extends from a value of at least 20 percent less than the lowest expected exhaust flow rate to a value of at least 20 percent greater than the highest expected exhaust flow rate.</li> <li>c. The flow rate monitoring system must be equipped with a data</li> </ul>	
	<ul> <li>acquisition and recording system that is capable of recording values over the entire range specified in §63.1350(n)(2).</li> <li>d. The signal conditioner, wiring, power supply, and data acquisition and recording system for the flow rate monitoring system must be compatible with the output signal of the flow rate sensors used in the monitoring system.</li> </ul>	
	e. The flow rate monitoring system must be designed to complete a minimum of one cycle of operation for each successive 15-minute period.	
	f. The flow rate sensor must have provisions to determine the daily zero and upscale calibration drift (CD) (see sections 3.1 and 8.3 of Performance Specification 2 in appendix B to Part 60 of 40 CFR 60 for a discussion of CD).	
	<ul> <li>g. Conduct the CD tests at two reference signal levels, zero (e.g., 0 to 20 percent of span) and upscale (e.g., 50 to 70 percent of span).</li> <li>h. The absolute value of the difference between the flow monitor response and the reference signal must be equal to or less than 3</li> </ul>	
	percent of the flow monitor span.  i. Verify the accuracy of the flow rate monitoring system at least once per year by repeating a relative accuracy test according to Section 8.2 of PS 6 of appendix B to 40 CFR 60, with the following	
	<ul> <li>exceptions: <ol> <li>The relative accuracy test is to evaluate the flow rate monitoring system alone rather than a continuous emission rate monitoring system.</li> <li>The relative accuracy of the flow rate monitoring system shall be no greater than 10 percent of the mean value of the reference method data.</li> </ol> </li></ul>	
	j. Operate the flow rate monitoring system and record data during all periods of operation of the affected facility including periods of startup, shutdown, and malfunction, except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span	
	adjustments).  C. <b>Performance Testing.</b> The Hg emissions rate shall be calculated according	
	to Equation 10 of §63.1349(b)(5)(ii) based on data from a 30-day operating period of the integrated sorbent trap monitoring system and the kiln.  1. Performance tests are required at regular 30-month intervals.  Performance tests must be completed no more than 31 calendar months after the previous performance test.  2. Performance testing shall be conducted according to Method 30B of Appendix A of 40 CFR 60.	
39.	HCl Requirements	60.63(e)
	A. <b>Monitoring Requirements.</b> The permittee shall demonstrate compliance with the HCl emissions limit by using an SO <sub>2</sub> CEMS to establish an	60.63(f) 63.1348(b)(8)(ii 63.1348(b)(8)(ii

No.		Federally Enforceable Conditions for Kiln			
			ng level during HCl performance tests and monitor SO <sub>2</sub> levels	63.1349(b)(6)(iii)	
		continu	ously according to §63.1350(1)(3), as follows:	63.1349(b)(8)	
		1. De	velop an emissions monitoring plan in accordance with	63.1349(c)	
		§6.	3.1350(p)(1) through (4).	63.1350(1)	
		2. Th	e operating limit must be equal to the average recorded during an	63.1350(m)(9)	
			Cl stack test where the HCl stack test run result demonstrates	, , ,	
			mpliance with the emissions limit. This operating limit will apply		
			ly for demonstrating HCl compliance.		
			onitor $SO_2$ emissions continuously according to §60.63(e) and (f).		
			stall, operate, and maintain the CEMS according to PS 2 of appendix		
			to 40 CFR 60.		
			e span value for the SO <sub>2</sub> CEMS monitor is the SO <sub>2</sub> emission		
			ncentration that corresponds to 125 percent of the applicable		
			issions limit at full clinker production capacity and the expected		
			expected in the content.		
			anduct performance evaluations of each SO <sub>2</sub> CEMS monitor		
			cording to the requirements in §60.13(c) and Performance		
			ecification 2 of appendix B to this part. Use Methods 6, 6A, or 6C of		
			pendix A-4 to 40 CFR 60 for conducting the relative accuracy		
			aluations. The method ASME PTC 19.10-1981, "Flue and Exhaust		
			s Analyses," (incorporated by reference—see §60.17) is an		
			ceptable alternative to Method 6 or 6A of appendix A-4 to this part.		
			mply with the quality assurance requirements in Procedure 1 of		
			pendix F to 40 CFR 60 for the SO <sub>2</sub> CEMS, including quarterly		
			curacy determinations for monitors, and daily calibration drift tests.		
			cord the SO <sub>2</sub> CEMS output data for all periods when the process is		
			erating and the SO <sub>2</sub> CEMS is not out-of-control.		
			e all quality-assured hourly average data collected by the SO <sub>2</sub> CEMS		
		for	all operating hours to calculate the arithmetic average operating		
		pai	rameter in units of the operating limit (ppmvw) on a 30 operating day		
		rol	ling average basis, updated at the end of each new kiln operating day,		
		usi	ng Equation 21 of §63.1349(b)(8)(viii).		
	B.	Exceed	lances. If the SO <sub>2</sub> level exceeds by 10 percent or more the site-		
		specific	c SO <sub>2</sub> emissions limit, the permittee must:		
		1. As	soon as possible but no later than 30 days after the exceedance,		
		cor	nduct an inspection and take corrective action to return the SO <sub>2</sub>		
			EMS measurements to within the established value; and		
			thin 90 days of the exceedance or at the time of the periodic		
			mpliance test, whichever comes first, conduct another performance		
			t to determine compliance with the HCl limit and to verify or re-		
			ablish the site-specific SO <sub>2</sub> emissions limit.		
	C.		mance Testing.		
	-		e Method 321 of appendix A to 40 CFR 63 to determine emissions of		
		HC			
			sting must be conducted for raw mill on and mill off conditions.		
			ch performance test must consist of three separate runs under the		
			nditions that exist when the affected source is operating at the		
			presentative performance conditions. Each run must be conducted for		
		_	least one hour.		
			the same time that the performance test for HCl is being conducted,		
			termine a site-specific SO <sub>2</sub> emissions limit by operating an SO <sub>2</sub>		
			EMS in accordance with the requirements of §63.1350(1).		
			e average $SO_2$ concentration (as calculated from the average output)		
		dui	ring the 3-hour test must be calculated.		

No.	Federally Enforceable Conditions for Kiln	Regulations
	6. Establish the SO <sub>2</sub> operating limit and determine compliance with it according to §63.1350(b)(8)(vii) and (viii).	
	<ul> <li>7. Conduct separate performance tests while the raw mill is on and while the raw mill is off.</li> <li>a. Using the fraction of time that the raw mill is on and the fraction of time that the raw mill is off, calculate this limit as a weighted average of the SO<sub>2</sub> levels measured during raw mill on and raw mill off compliance testing with Equation 17 of §63.1349(b)(8)(vi).</li> </ul>	
	8. The SO <sub>2</sub> CEMS must be calibrated and operated according to the requirements of §60.63(f).	
	9. The SO <sub>2</sub> CEMS measurement scale must be capable of reading SO <sub>2</sub> concentrations consistent with the requirements of §60.63(f), including mill on or mill off operation.	
	10. Performance tests are required at regular 30-month intervals.  Performance tests must be completed no more than 31 calendar months after the previous performance test.	

# **Clinker Cooler Summary Tables**

NSR Requirements				
Parameter   Limit (lh/hr)		Control Equipment	Monitoring	
PM	8.14	Baghouse	CPMS	
$PM_{10}$	8.14	Baghouse	CPMS	

	SIP Requirements	
Parameter	Limit	Monitoring
PM	For process weight rates of less than 30 tons/hour: $E = 3.59  p^{0.62}$ For process weight rates equal to or greater than 30 tons/hour: $E = 17.31  p^{0.16}$ Where: $E = \text{emission rate in pounds/hour for all similar process units, and } p = \text{process weight rate in tons/hour.}$ $0.10  \text{lb/ton kiln feed}$	CPMS
Opacity	20%	Recordkeeping, proper operation and maintenance of filter

40 CFR 63, Subpart LLL Requirements					
Parameter	<b>Emissions Limit</b>	Monitoring Parameter	Monitoring Requirements		
PM	0.07 pounds per ton clinker produced	Site-specific Limit	CPMS		

	Operating Requirements				
Operating Requirement		Citation Summary			
Startup/Shutdown		63.1348(b)(9)	During periods of startup and shutdown, particulate control devices should be operational.		
Clinker Production Monitoring		63.1348(b)(2) 63.1350(d)	Determine hourly clinker production by operating permanent weigh scale systems to measure the amount of clinker produced or the amount of feed to the kiln		

# **Federally Enforceable Conditions for Clinker Cooler**

Emissions Unit No.	<b>Emissions Unit Description</b>	Control Device
006	Clinker Cooler	95,000 SCFM Baghouse

No.		Federally	y Enforceable Conditions for Clinker Cooler	Regulations
1.	Applicabilit		·	6.1
1.	The emissions unit permitted herein is subject to production and emissions limits			6.4
			New Source Review. The emissions unit is also subject to	6.10
			sions," Part 6.4, "Process Industries – General," and Part	60.62
			of the Rules and Regulations. 40 CFR 63, Subpart LLL,	63.1340
			ndards for Hazardous Air Pollutants From the Portland	63.1356
			Industry," and 40 CFR 60, Subpart F, "Standards of	03.1330
			ad Cement Plants," also apply.	
			New Source Review Requirements	
2.	Clinker Coo	ler Emissi	ons Limits	2.4
	The clinker of	cooler exha	ust shall not exceed the following emissions rates:	14.1.2
	Pollutant	Limit	Testing Method	18.2.4
		8.14	Performance testing by EPA Method 5 of 40 CFR 60,	18.5.3
	PM	lb/hr	Appendix A every 5 years	4-07-0290-02
		8.14	Performance testing by EPA Methods 201A and 202 of 40	
	$PM_{10}$	lb/hr	CFR 51, Appendix M every 5 years	
	The permitte		demonstrate compliance by complying with the limits under	
	40 CFR 63, S		1 1 0	
3.			Requirements	1.9
			ntain the following records to demonstrate compliance with	18.5.3
	the applicabl			
	A. Results			
			State Implementation Plan Requirements	
4.	SIP Applica	<u>bility</u>		6.1
	The emission	ns unit pern	nitted herein is subject to the opacity limit of Part 6.1, and	6.4
	particulate m	natter emiss	ion limits of Part 6.4 and Part 6.10 of the Rules and	6.10
	Regulations.			
5.	Visible Emis	ssions Rest	riction	6.1.1
	The permitte	e shall not	discharge into the atmosphere from any source of emission,	18.5.3
	particulate of	f an opacity	greater than that designated as twenty percent (20%), as	
	determined b	y a six (6)	minute average. If required by the Department, the opacity	
	shall be deter	rmined by 1	EPA Reference Method 9 of appendix A of 40 CFR 60. The	
	permittee ma	y discharge	e into the atmosphere from a source of emission, particulate	
			r than that designated as forty percent (40%) opacity during	
	one six (6) m	ninute perio	d in any sixty (60) minute period.	
6.			nissions Limit	6.4
			nonstrate compliance with the particulate matter emissions	6.10
	limits of Parts 6.4 and 6.10 of the Rules and Regulations by complying with the			14.1.2
	particulate m	natter emiss	ions limit of 40 CFR 63, Subpart LLL.	
7.	SIP Record	keeping Re	equirements	1.5.15
	The permitte	e shall mai	ntain, as a minimum, the following records to demonstrate	1.9.2
	compliance v	with the app	plicable requirements and to serve as basis for annual	18.5.3
	emissions ca			
	A. Quantity of clinker through the cooler (tons); and			
	B. Hours of operation of the cooler.			

No.	Federally Enforceable Conditions for Clinker Cooler	Regulations	
	40 CFR 60, Subpart F Requirements		
8.	40 CFR 60, Subpart F Applicability 40 CFR 60, Subpart F applies to clinker coolers located at Portland Cement plants that commenced construction or modification after August 17, 1971. Pursuant to \$60.62(b)(1)(iv), clinker coolers constructed, reconstructed, or modified after August 17, 1971 but on or before June 16, 2008 that use a PM CPMS are not subject to the opacity limit under Subpart F. Pursuant to \$60.62(d), sources subject to Subpart F that are in compliance with a more stringent emissions limit or requirement under Title 40 are not subject to the less stringent requirement. The permittee operates a PM CPMS and has demonstrated compliance with the more stringent PM emissions limit of 40 CFR 63, Subpart LLL, and so is no longer subject to the limits under Subpart F.	60.60 60.62(b)(1)(iv) 60.62(d)	
	40 CFR 63, Subpart LLL Requirements		
9.	40 CFR 63, Subpart LLL Applicability  For the emissions unit permitted herein, the affected source under 40 CFR 63, Subpart LLL is each clinker cooler. Table 1 of Subpart LLL provides cross references to the general provisions of 40 CFR 63, Subpart A that apply to affected sources. If the clinker cooler is reconstructed, the emission limits for a new clinker cooler under Subpart LLL will become applicable, performance testing to demonstrate compliance with the new limits, and revision to the Permit would be required. The permittee shall notify the Department prior to any reconstruction, identifying any applicable requirements which are triggered by the change to allow the Department to determine if reopening and revision of the permit is required. No	18.2.4 60.14 60.15 63.1340(a) 63.1340(b)(1) 63.1342	
10.	permit shield will apply for requirements triggered by modification or reconstruction.  Clinker Cooler Standards  The emissions unit permitted herein is subject to a particulate matter emissions limit of 0.07 pounds per ton clinker produced at all times of operation, except that the work practices of §63.1348(b)(9) apply during periods of startup and shutdown.	63.1343(a) 63.1343(b)(1) 63.1348(b)(9)	
11.	<ul> <li>Clinker Production Monitoring Requirements</li> <li>The permittee shall determine the hourly production rate of clinker, according to the requirements of §63.1350(d), as follows:         <ul> <li>A. Determine hourly clinker production by one of two methods:</li> <li>I. Install, calibrate, maintain, and operate a permanent weigh scale system to measure and record weight rates in tons-mass per hour of the amount of clinker produced. The system of measuring hourly clinker production must be maintained within ±5 percent accuracy; or</li> <li>Install, calibrate, maintain, and operate a permanent weigh scale system to measure and record weight rates in tons-mass per hour of the amount of feed to the kiln.</li> <li>a. The system of measuring feed must be maintained within ±5 percent accuracy.</li> <li>b. Calculate the hourly clinker production rate using a kiln-specific feed to clinker ratio based on reconciled clinker production determined for accounting purposes and recorded feed rates. Update this ratio monthly. If this ratio changes at clinker reconciliation, use the new ratio going forward, but it is not required to retroactively change clinker production rates previously estimated.</li> </ul> </li> <li>B. Determine, record, and maintain a record of the accuracy of the system of measuring hourly clinker production (or feed mass flow if applicable).</li> <li>1. During each quarter of source operation, determine, record, and maintain a record of the ongoing accuracy of the system of measuring hourly clinker production (or feed mass flow).</li> </ul>	63.1348(a)(iv) 63.1348(b)(2) 63.1350(d)	

No.		Regulations	
		r production is measured directly, record the daily clinker production	
	rates.	-d	
		ed rates are measured and clinker production calculated, record the iln feed and clinker production rates.	
		an emissions monitoring plan in accordance with §63.1350(p)(1)	
	through		
12.		Matter Requirements	63.1348(b)(2)
12.	A. Monitor compliar accordin  1. The limi com com a.	ing Requirements. The permittee shall demonstrate continuous nee with the particulate matter emission standards of Subpart LLL, g to the requirements of §63.1350(b), as follows: permittee shall use a PM CPMS to establish a site-specific operating t corresponding to the results of the performance test demonstrating pliance with the PM limit and use the CPMS to demonstrate continuous pliance with this operating limit.  To determine continuous compliance, PM CPMS output data for all periods when the process is operating and the PM CPMS is not out-of-control must be used.  i. All quality-assured hourly average data collected by the PM CPMS for all operating hours to calculate the arithmetic average operating parameter in units of the operating limit (milliamps) on a 30 operating day rolling average basis, updated at the end of each new kiln operating day, must be used. Equation 7 of §63.1349(b)(v)	63.1349(b)(1) 63.1350(b)
	reassess	shall be used to calculate the 30 operating day rolling average basis. <b>tance Testing.</b> Performance testing shall be conducted annually to and adjust the site-specific operating limit in accordance with the test	
	of ay thro 2. The	formance testing shall be conducted according to Method 5 or Method 5I ppendix A-3 of 40 CFR 60 and the procedures of §63.1349(b)(1)(i) ugh (iv).  site-specific operating limit shall be established using the procedures of	
	leve 3. Perf instr anal	1349(b)(1)(i) through (iv), as applicable, based upon the PM emissions I determined through the performance test. Formance testing must be repeated if the analytical range of the rument is changed, if the instrument itself is replaced, or if any principle ytical component of the instrument that would alter the relationship of out signal to in-stack PM concentration.	
	<ul><li>4. An e esta</li><li>5. Each the e reas</li></ul>	existing operating limit must be verified or a new operating limit blished after each repeated performance test. In performance test shall consist of at least three separate test runs under conditions that exist when the clinker cooler is operating at the level onably expected to occur.  Each test run shall be conducted to collect a minimum sample volume of 1 dscm.	
	C. Exceeda average 1. With	The time-weighted average of the results from the three consecutive runs shall be calculated and used to determine compliance.  Inces. For any exceedance of the 30-process operating day PM CPMS value from the established operating limit, the permittee must:  1. **nin 48 hours of the exceedance, visually inspect the APCD;  2. **spection of the APCD identifies the cause of the exceedance, take	
	corr to w 3. With	ective action as soon as possible and return the PM CPMS measurement ithin the established value; and nin 30 days of the exceedance or at the time of the annual compliance whichever comes first, conduct a PM emissions compliance test to	

No.	Federally Enforceable Conditions for Clinker Cooler	Regulations
	determine compliance with the PM emissions limit and to verify or reestablish the PM CPMS operating limit within 45 days. It is not required to conduct additional testing for any exceedances that occur between the time of the original exceedance and the PM emissions compliance test required under §63.1350(b)(1)(iii).	
	a. PM CPMS exceedances leading to more than four required	
	performance tests in a 12-month process operating period (rolling	
	monthly) constitute a presumptive violation of Subpart LLL.	

# Other Sources Subject to Subpart LLL Summary Tables

	NSR Requirements				
Parameter	Limit	Control Equipment	Monitoring		
PM	See table in Condition No. 2	Fabric Filter	Recordkeeping, proper operation and maintenance of filter		
$PM_{10}$	See table in Condition No. 2	Fabric Filter	Recordkeeping, proper operation and maintenance of filter		

	SIP Requirements				
Parameter	Limit	Monitoring			
PM	For process weight rates of less than 30 tons/hour: $E = 3.59 \ p^{0.62}$ For process weight rates equal to or greater than 30 tons/hour: $E = 17.31 \ p^{0.16}$ Where: $E = \text{emission rate in pounds/hour for all similar process units, and } p = \text{process weight rate in tons/hour.}$	Recordkeeping, proper operation and maintenance of filter			
Opacity	20%	Visible emissions observations			

40 CFR 60, Subpart F Requirements				
Parameter Emissions Monitoring Limit Parameter		O	Monitoring Requirements	
Opacity	10%	Opacity	Follow the appropriate monitoring procedures of \$63.1350(f), (m)(1) through (4), (10) and (11), and (p) of 40 CFR 63, Subpart LLL	

	40 CFR 63, Subpart LLL Requirements				
Parameter Emissions Limit		Monitoring Parameter	<b>Monitoring Requirements</b>		
Opacity	10%	Opacity	Visible emissions observations		

Federally Enforceable Conditions for Other Sources Subject to 40 CFR 63, Subpart LLL

Emissions Unit No.	<b>Emissions Unit Description</b>	Control Device
	Kiln Feed Storage and Handling	
003	Bucket Elevator, Air Slide, Blending Silo, and Raw Material Silos Nos. 1-3	8,700 SCFM Baghouse
004	Air Slide, Weigh Feeder, Scale, and 2 FK Pumps	5,500 SCFM Baghouse
034	Kiln Feed Bucket Elevator, Air Slides (No. 1 Preheater)	6,230 SCFM Baghouse
	Clinker Handling	
007	Clinker Pan Conveyor and Clinker Cooler Baghouse Dust Conveyor	2,402 SCFM Baghouse
008	Clinker Withdrawal System, Clinker Storage Silo, and Conveyor Transfer Point	(9) 1,250 SCFM DCE Vokes Baghouses (Clinker Withdrawal System) 12,600 SCFM Baghouse (Clinker Storage Silo and Conveyor Transfer Point)
009	Clinker Feed System, Pan Conveyor, and Bucket Elevator	9,000 SCFM Baghouse
063	Clinker Feed System, Clinker Drag, and Bucket Elevator	1,558 SCFM Baghouse
	No. 5, No. 6, & No. 7 Clinker Finish Grinding Ball	Mills
010	Clinker, Gypsum, Anhydrite, and Limestone Conveying Belt Transfer Points and Feed Elevator Serving No. 5 Mill	17,982 SCFM Baghouse
011	No. 5 Finish Mill, Finished Product Elevator, Cement Cooler, Separator, and FK Pump Hopper	20,000 SCFM Baghouse
012	No. 6 Finish Mill, Mill Discharge Elevator, Cyclone, Screw Conveyor, Separator, Mill Feed Elevator, Cement Cooler, FK Pump Hopper, Clinker Belt, and Gypsum Belt Transfer Point	14,545 SCFM Baghouse
013	No. 7 Finish Mill Feed-Belt Conveyor and Feeders	11,522 SCFM Baghouse
014	No. 7 Finish Mill, Bucket Elevator, Material Coolers, FK Pump Hopper	21,942 SCFM Baghouse
	Rotary Packing Machine and Cement Transfer Sy	stem
015	"B" Silos Cement Transfer System	11,352 SCFM Baghouse
016	Rotary Packer and Masonry Truck/Rail Bulk Loading System	16,000 SCFM Baghouse
017	Burst Bag Trap and Cleaning Station	1,242 SCFM Baghouse
	"B" Silo Storage and Loadout	
018	"B" Cement Silos	6,083 SCFM Baghouse (S.W. Baghouse)
019	"B" Cement Silos	6,022 SCFM Baghouse (N.E. Baghouse)
022	"B" Bulk Truck/Rail Loadout Station Bin	3,476 SCFM Baghouse
023	"B" Bulk Truck/Rail Loadout Station Spout	1,200 SCFM Baghouse
	"C" Silo Storage and Loadout	
020	"C" Cement Silos	6,083 SCFM Baghouse (S.W. Baghouse)

Emissions Unit No.	Emissions Unit Description	Control Device
021	"C" Cement Silos	6,083 SCFM Baghouse (N.E. Baghouse)
024	North Withdrawal Screw Conveyors from "C" Silos and North Railcar Loadout Station Spout	22,000 SCFM Baghouse
025	Center Withdrawal Screw Conveyors from "C" Silos	14,000 SCFM Baghouse
026	South Withdrawal Screw Conveyors from "C" Silos	14,000 SCFM Baghouse
027	North "C" Truck Loadout Station Silo	3,371 SCFM Baghouse
028	North "C" Truck Loadout Spout	1,200 SCFM Baghouse
029	South "C" Truck Loadout Station Silo (East Side)	1,300 SCFM Baghouse
030	South "C" Truck Loadout Station Silo (West Side)	1,300 SCFM Baghouse
031	South "C" Silos Truck Loadout Station Spout	1,000 SCFM Baghouse
	"D" Silo Storage and Loadout	
051	"D" Outer Silo	2,141 SCFM Baghouse
052	"D" Inner Silo	2,141 SCFM Baghouse
053	"D" Central Silo	2,141 SCFM Baghouse
054	"D" Silo Collecting Hopper	2,752 SCFM Baghouse
055	"D" Silo Truck Loading Station No. 1	2,997 SCFM Baghouse
056	"D" Silo Truck Loading Station No. 2	2,997 SCFM Baghouse
057	"D" Silo Rail Car Loading Station	2,997 SCFM Baghouse
058	"D" Silo Truck Loading Spout Station No. 1	1,927 SCFM Baghouse
059	"D" Silo Truck Loading Spout Station No. 2	1,927 SCFM Baghouse
060	"D" Silo Rail Car Loading Spout	533 SCFM Baghouse
061	"D" Outer Silo No. 2	2,141 SCFM Baghouse

No.	Federally Enforceable Conditions for Other Sources Subject to 40 CFR 63, Subpart LLL	Regulations
1.	Applicability	6.1
	The emissions units permitted herein are subject to emissions limits established	6.4
	pursuant to New Source Review. The emissions units are also subject to Parts 6.1,	18.2.4
	"Visible Emissions," and Part 6.4, "Process Industries – General," of the Rules and	60.60
	Regulations. 40 CFR 63, Subpart LLL, "National Emission Standards for Hazardous	63.1340
	Air Pollutants from the Portland Cement Manufacturing Industry," and 40 CFR 60,	
	Subpart F, "Standards of Performance for Portland Cement Plants," also apply.	

#### **New Source Review Requirements**

### 2. Particulate Matter Emissions Limits

The control equipment for the following emission units shall not exceed the following emission rates, established pursuant to New Source Review.

2.4 18.2.4

Emissions Unit No.	Air Flow (SCFM)	PM Emissions Limit (lb/hr)	PM <sub>10</sub> Emissions Limits (lb/hr)
003	8,700	1.49	1.27
004	5,500	0.42	0.36
007	2,402	0.41	0.35
008 (Clinker			
Withdrawal	1,250 per unit	0.10	0.08
System)	•		
008 (Clinker			
Storage Silo			
and Conveyor	12,600	0.97	0.83
Transfer			
Point)			
009	9,000	0.69	0.59
010	17,982	1.39	1.18
011	20,000	1.54	1.31
012	14,454	1.11	0.95
013	11,522	0.89	0.76
014	21,942	1.69	1.44
015	11,352	0.88	0.74
016	16,000	1.23	1.05
017	1,242	0.21	0.18
018	6,083	1.04	0.89
019	6,022	1.03	0.88
020	6,083	1.04	0.89
021	6,083	1.04	0.89
022	3,476	0.60	0.51
023	1,200	0.21	0.18
024	22,000	1.70	1.44
025	14,000	1.08	0.92
026	14,000	1.08	0.92
027	3,371	0.58	0.49
028	1,200	0.21	0.18
029	1,300	0.22	0.19
030	1,300	0.22	0.19
031	1,000	0.17	0.15
034	6,230	0.48	0.41
051	2,141	0.17	0.17
052	2,141	0.17	0.17
053	2,141	0.17	0.17
054	2,752	0.21	0.21

No.	Federally Enforceable Conditions for Other Sources Subject to 40 CFR 63, Subpart LLL				Regulations
	Emissions	•	PM Emissions	PM <sub>10</sub> Emissions	
	Unit No.	Air Flow (SCFM)	Limit (lb/hr)	Limits (lb/hr)	
	055	2,997	0.23	0.23	
	056	2,997	0.23	0.23	
	057	2,997	0.23	0.23	
	058	1,927	0.15	0.15	
	059	1,927	0.15	0.15	
	060	533	0.04	0.04	
	061	2,141	0.04	0.17	
	063	1,558	0.17	0.17	
		· · · · · · · · · · · · · · · · · · ·			
		atter emissions rate shall			
		ix A. The $PM_{10}$ emissions		sured by EPA	
	Methods 201A ar	nd 202 of 40 CFR 51, Ap	pendix M. entation Plan Requi	ramants	
3.	SIP Applicabilit		entation Flan Kequi	rements	6.1
٥.		<u>x</u> its permitted herein are s	ubject to the onacity l	limit of Part 6.1 and	6.4
		atter emissions limit of Pa			0.4
4.	Visible Emission		ar o. + or the ixtues all	ia regulations.	6.1
т.		all demonstrate complian	ce with the opecity lie	mit of Part 6.1 of the	14.1.2
		ations by complying with			14.1.2
	and 40 CFR 63, S		the opacity fillit of 4	o CFK 00, Subpart F	
5.		ter Emissions Limitation	20		6.4
٥.		all demonstrate compliance		matter emissions	18.2.4
					10.2.4
		of the Rules and Regulation			
		limits established pursua	nt to New Source Rev	view for each	
	emissions unit pe				10.2.4
6.	Maintenance of		C:14		18.2.4
		e shall equip each fabric			18.5.3(a)(2)
		fferential measuring devi			
		n the control device. The			
		ly accessible for inspection			
		ion control devices and c			
		be maintained and operate			
		r's specifications or alterr			
		so as to minimize the emi			
		the above equipment is p			
		e emissions of air contami		fined near the source	
		to the Department upon			
		e shall conduct routine in			
		All inspection results and			
	control device				
		e for inspection.			
7.	SIP Recordkeep	1.5.15			
	The permittee sha	1.9.2			
	compliance with	18.5.3			
	calculations:				
		roduction data reporting a			
		(throughput) and type of			
		(throughput) and type of			
		(throughput) and type of			
		point (short tons);	•		

No.	Federally Enforceable Conditions for Other Sources Subject to 40 CFR 63, Subpart LLL	Regulations
	<ul> <li>4. Quantity (throughput) and type of material processed at each finish mill (short tons);</li> <li>5. Quantity (throughput) and type of material conveyed at each loading or bagging point (short tons); and</li> <li>6. Hours of operation for each listed emissions unit.</li> <li>B. For demonstrating compliance with the applicable regulations:</li> <li>1. Records of filter inspections and any resulting repair work.</li> </ul>	
	40 CFR 60, Subpart F Requirements	
8.	40 CFR 60, Subpart F Applicability  For the emissions units permitted herein, the affected sources under Subpart F are finish mill systems, raw material storage, clinker storage, finished product storage, conveyor transfer points, bagging and bulk loading and unloading systems.	60.60
9.	Opacity Limit The emissions units permitted herein are subject to an opacity limit of 10% under Subpart F. Pursuant to \$60.64(b)(3), the permittee shall follow the appropriate monitoring procedures of \$63.1350(f), (m)(1) through (4), (10) and (11), and (p) of 40 CFR 63, Subpart LLL.	60.62(c) 60.64(b)(3)
	40 CFR 63, Subpart LLL Requirements	
10.	For the emissions units permitted herein, the affected sources under Subpart LLL are the following:  Each finish mill.  Each raw material, clinker, or finished product storage bin.  Each conveying system transfer point including those associated with coal preparation used to convey coal from the mill to the kiln.  Each bagging and bulk loading and unloading system.  Each open clinker storage pile.  Table 1 of Subpart LLL provides cross references to the general provisions of 40 CFR 63, Subpart A that apply to affected sources.	63.1340(a) 63.1340(b)(4) 63.1340(b)(6) 63.1340(b)(7) 63.1340(b)(8) 63.1340(b)(9) 63.1342
11.	<ul> <li>Opacity Standards</li> <li>For the emissions units permitted herein, the permittee shall not cause the discharge of any gases which exhibit opacity in excess of 10%, at all times of operation.</li> <li>Monitoring and Testing Requirements</li> <li>A. Monitoring Requirements. The permittee shall demonstrate compliance with the opacity limit of Subpart LLL in accordance with the monitoring requirements of §63.1350(f), based on the maximum 6-minute average opacity exhibited during the performance test period. Monitoring must also be conducted in accordance with the monitoring plan developed under §63.1350(f).</li> <li>1. Compliance shall be demonstrated using the monitoring methods of §63.1350(f), based on the maximum 6-minute average opacity exhibited during the performance test period.</li> <li>2. Monitoring shall be conducted according to the monitoring plan developed under §63.1350(f).</li> <li>3. Corrective actions shall be initiated within one hour of detecting visible emissions above the applicable limit.</li> <li>4. Visible emissions monitoring shall be conducted, as follows: <ul> <li>a. Conduct a monthly 10-minute visible emissions test in accordance with Method 22 of appendix A-7 of 40 CFR 60, while the kiln is in operation.</li> <li>b. If no visible emissions are observed in six consecutive monthly tests, the frequency may be decreased from monthly to semi-annually. If</li> </ul> </li> </ul>	63.1343(a) 63.1343(c) 63.1345 63.1348(b)(3) 63.1349(b)(2) 63.1350(f)

No.	Fede	erally Enforceable Conditions for Other Sources Subject to 40 CFR 63,	Regulations
110.		Subpart LLL	Regulations
		testing must be resumed and maintained until no visible emissions are	
		observed in six consecutive monthly tests.	
		c. If no visible emissions are observed during the semi-annual test, the	
		frequency may be decreased from semi-annually to annually. If visible	
		emissions are observed during any annual performance test, monthly	
		testing must be resumed and maintained until no visible emissions are	
		observed in six consecutive monthly tests.	
		d. If visible emissions are observed during any Method 22 performance	
		test, conduct 30 minutes of opacity observations, recorded at 15-second	
		intervals, in accordance with Method 9. The Method 9 performance	
		test, must begin within 1 hour of any observation of visible emissions.	
		e. Any totally enclosed conveying system transfer point, regardless of the	
		location of the transfer point is not required to conduct Method 22	
		visible emissions monitoring. The enclosures for these transfer points	
		must be operated and maintained as total enclosures on a continuing	
		basis in accordance with the facility operations and maintenance plan.  f. If any partially enclosed or unenclosed conveying system transfer point	
		f. If any partially enclosed or unenclosed conveying system transfer point is located in a building, conduct a Method 22 performance test,	
		according to the requirements of \$63.1350(f)(1)(i) through (iv) for each	
		such conveying system transfer point located within the building, or for	
		the building itself, according to \$63.1350(f)(1)(vii).	
		g. If visible emissions from a building are monitored, the requirements of	
		§63.1350(f)(1)(i) through (iv) apply to the monitoring of the building.	
		Visible emissions from each side, roof, and vent of the building must	
		also be tested for at least 10 minutes.	
	5.	Finish Mills Opacity Monitoring.	
		a. Conduct daily visible emissions observations of the mill sweep and air	
		separator PM control devices (PMCD) in accordance with Method 22	
		for 6 minutes.	
		b. Within 24 hours of the end of the Method 22 performance test in which	
		visible emissions were observed, conduct a follow-up Method 22	
		performance test of each stack from which visible emissions were	
		observed during the previous Method 22 performance test.	
		i. Within one-hour of such observations, corrective actions specified	
		in the operating and maintenance plan, as required in §63.1347,	
		must be initiated. c. If visible emissions are observed during the follow-up Method 22	
		performance test from any stack from which visible emissions were	
		observed during the previous Method 22 performance test, conduct an	
		opacity test of each stack from which emissions were observed during	
		the follow-up Method 22 performance test in accordance with Method	
		9 for 30 minutes.	
	B. Per	rformance Testing.	
	1.	Opacity tests shall be conducted in accordance with Method 9 of appendix	
		A-4 to 40 CFR 60.	
	2.	The test must be 3 hours (30 6-minute averages), except that the duration of	
		the test may be reduced to 1 hour if the following conditions are met:	
		a. There are no individual readings greater than 10% opacity.	
		b. There are no more than three readings of 10% for the first 1-hour	
	2	period.	
	3.	For batch processes that are not run for 3-hour periods or longer, compile	
	4	observations totaling 3 hours when the unit is operating.	
	4.	Performance testing is required for new sources and after major repairs.	

# **Federally Enforceable Conditions for Emergency Generators**

Emissions Unit No.	Emissions Unit Description
062	Emergency Generator: Rotary Kiln Auxiliary Drive Engine –Caterpillar XQ230– 244-hp- Diesel – Installed 2024
064	Emergency Generator: Detroit Diesel – Allison 8V92T – 643-hp – Diesel – Installed 1993

No.	Federally Enforce	rgency Generator	Regulations		
1.	Applicability The emissions units permitt Rules and Regulations. The Subpart IIII, "Standards of Internal Combustion Engine Emissions Standards for Ha Internal Combustion Engine installation date.	6.1 6.3 7.1 60.14 60.15 60.4200(a) 63.2 63.6590(a)(1)(i)			
	Emissions Unit No.	40 CFR 60, Subpart IIII	40 CFR 63, Subpart ZZZZ	63.6590(b)(3)(iii) 63.6590(c)(6)	
	062	Applicable	Applicable	03.0370(0)	
	064	Not Applicable	Not Applicable		
2.	Emissions Unit No. 062 shall demonstrate compliance with Subpart ZZZZ by complying with Subpart IIII. Pursuant to §63.6590(b)(3)(iii), Emissions Unit No. 064 does not have to meet the requirements of Subpart ZZZZ or of 40 CFR 63, Subpart A. The reconstruction or modification of Emissions Unit No. 064 could subject it to additional requirements under Subpart IIII and/or Subpart ZZZ. The permittee shall notify the Department prior to any reconstruction, identifying any applicable requirements which are triggered by the change to allow the Department to determine if reopening and revision of the permit is required. No permit shield will apply for requirements triggered by modification or reconstruction.  Visible Emissions  6.1.1				
	The permittee shall not discharge into the atmosphere from any source of emission any air contaminant with an opacity greater than 20%, as determined by a 6-minute average using EPA Method 9 of 40 CFR 60, Appendix A, except that during (1) 6-minute period in any 60-minute period, particulate emissions from a source of emission may reach but not exceed 40% opacity.				
3.	Visible Emissions Observations  If the period of operation of an engine exceeds the time needed to startup the engine and achieve safe loading and normal operation (a maximum of 30 minutes), the exhaust shall be visually observed for the presence of visible emissions. It is not necessary to quantify the opacity of the visible emissions during normal operation if the cause of any amount of visible emissions is promptly investigated and corrected. The effectiveness of corrective actions shall be demonstrated by follow-up a visual observation at the completion of repairs and not later than the next operation of the engine. If visible emissions are not corrected, a certified observer shall complete a Visible Emissions Evaluation consistent with EPA Method 9 of 40 CFR 60, Appendix A, within 3 working days to establish compliance with Section 6.1.1.			18.5.3	

No.	Federally Enforceable Conditions for Emergency Generator	Regulations
4.	Fuel Restriction	6.3
	The permittee shall combust only diesel fuel in each compression ignition (CI)	7.1
	engine. Compliance with this provision will serve to demonstrate compliance	18.2.4
	with the applicable requirements for fuel combustion emissions at Sections 6.3	18.5.3
	(particulate matter) and 7.1 (sulfur dioxide) of the Rules and Regulations.	60.4207(b)
	Compliance shall be demonstrated by fuel records. For engines subject to	
	Subpart IIII, diesel fuel must conform to the requirements of 40 CFR §80.510(b)	
	for nonroad diesel fuel, except that any existing diesel fuel purchased prior to October 1, 2010 may be used until depleted.	
5.	Restrictions on Non-Emergency Use	18.2.4
٥.	There is no time limit on the use of an emergency engine in emergency	60.4211(f)
	situations. The permittee must comply with the following restrictions on non-	60.4219
	emergency use, for the emissions units to be considered emergency engines:	00.1219
	A. Operation for maintenance checks and readiness testing is allowed for up to	
	100 hours per calendar year as specified in §60.4211(f)(2)(i); and	
	B. Operation for non-emergency situations is limited to 50 hours per calendar	
	year. Any operation for non-emergency operation shall also count toward	
	that 100 hours per year allowed for maintenance checks and readiness	
	testing. Any operation for non-emergency situations cannot be used for peak	
	shaving or non-emergency demand response, or to generate income for a	
	facility to an electric grid or otherwise supply power as part of a financial	
	arrangement with another entity, unless all the following conditions are met:	
	1. The engine is dispatched by the local balancing authority or local	
	transmission and distribution system operator;	
	2. The dispatch is intended to mitigate local transmission and/or	
	distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local	
	area or region;	
	3. The dispatch follows reliability, emergency operation or similar	
	protocols that follow specific NERC, regional, state, public utility	
	commission, or local standards or guidelines;	
	4. The power is provided only to the facility itself or to support the local	
	transmission and distribution system;	
	5. The owner or operator identifies and records the entity that dispatches	
	the engine and the specific NERC, regional, state, public utility	
	commission or local standards or guidelines that are being followed for	
	dispatching the engine. The local balancing authority or local	
	transmission and distribution system operator may keep these records	
	on behalf of the engine owner or operator.	
	Any engine that does not comply with the non-emergency use restriction must	
	comply with the requirements for non-emergency engines under the applicable	
6	subpart(s).  Non Posettable Hour Motor	10 2 4
6.	Non-Resettable Hour Meter For each emergency engine, the permittee shall install a non-resettable hour	18.2.4 60.4209(a)
	meter, and, for each instance of engine operation, record the time (duration) of	60.4214(b)
	engine operation and the reason the engine was in operation at that time.	00.7217( <i>0)</i>
7.	Requirements for 40 CFR 60, Subpart IIII	60.4202(a)(2)
~	A. The engine is required to be certified by the manufacturer to the Tier 2 or	60.4205(b)
	Tier 3 emissions standards for new, nonroad CI engines for the same rated	60.4206
	power as described in 40 CFR 1039, appendix I, for all pollutants and the	60.4209(b)
	smoke standards as specified in 40 CFR 1039.105 for the same model year	60.4211(g)(2)
	and maximum engine power. The engine shall be installed and configured	
	according to the manufacturer's emission-related written specifications for	
	the entire life of the engine;	

No.	Federally Enforceable Conditions for Emergency Generator	Regulations
	<ul> <li>B. If the engine is equipped with a diesel particulate filter, a backpressure monitor must be installed that notifies the permittee when the high backpressure limit of the engine is approached;</li> <li>C. Install, configure, operate, and maintain each engine and control device according to the manufacturer's emission-related written instructions; change only those emission-related settings that are permitted by the manufacturer; and meet the requirements of 40 CFR 1068 as they apply;</li> <li>D. If the engine has not been installed, configured, operated, and maintained according to the manufacturer's emission-related instructions, or if any emission-related settings are changed in a way that is not permitted by the manufacturer:</li> </ul>	
	<ol> <li>Keep a maintenance plan and records of conducted maintenance;</li> <li>To the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions; and</li> <li>Conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the emission-related settings have been changed in a way that is not permitted by the manufacturer.</li> </ol>	
	Performance testing (if required) shall be performed according to the requirements of 40 CFR §§60.4212(a)-(e) and 60.8. A copy of each performance test shall be submitted to the Department within 60 days after the test has been completed.	
8.	<ul> <li>Recordkeeping Requirements for 40 CFR 60, Subpart IIII</li> <li>A. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the permittee must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The permittee must also record the time of operation of the engine and the reason the engine was in operating during that time.</li> <li>B. If a diesel particulate filter is equipped, the permittee shall keep records of any corrective action taken after the backpressure monitor has notified the operator that the high backpressure limit of the engine is approached.</li> </ul>	60.4214(b) 60.4214(c)
9.	SIP Recordkeeping Requirements  The permittee shall maintain, as a minimum, the following records to demonstrate compliance with the applicable requirements and to serve as basis for emissions calculations:  A. For annual production data reporting and emissions calculations:  1. Hours of operation for the engine;  2. Type and quantity of fuel used in gallons per year.  B. For demonstrating compliance with the applicable requirements:  1. Records of the purpose of each operation of each engine to demonstrate compliance with the restrictions on use other than for emergency operation;  2. Records to document the type of fuel used and the sulfur content of fuel used by each engine;  3. Time, date and duration of malfunctions, including whether the equipment the control device is intended to control was operating and any corrective actions taken;  4. Time, date, total engine hours operated, and name of person(s) performing each inspection;	1.5.15 1.9 18.5.3

No.	Federally Enforceable Conditions for Emergency Generator	Regulations
	5. Time, date, name of observer for visible emissions observations;	
	6. Time, date, total engine hours operated, and name of person(s) performing maintenance, corrective actions and repairs; and	
	7. If the hours of operation for any engine exceed 50 hours for the previous calendar year, include the number of hours spent for non-emergency operation.	

# Appendix A: Cross-References Table: JCBH Air Pollution Control Rules and Regulations to State Implementation Plan

The citations to Alabama regulations provided below refer to the version of the regulation that has been approved by the U.S. EPA as part of Alabama's Clean Air Act state implementation plan (SIP), as identified in 40 CFR 52, Subpart B. In the event that there is a discrepancy between the information provided in the table below and the federal regulatory table identifying the Alabama SIP at 40 CFR 52, Subpart B, the federal regulatory table governs.

JCDH Citation	<b>State Citation</b>	Title/Subject
	Chapter No. 335-1-1	Organization
No equivalent provision	Section 335-1-103 <sup>1</sup>	Organization and Duties of the Commission
No equivalent provision	Section 335-1-104	Organization of the Department
Chapter 1	Chapter No. 335-3-1	General Provisions
Part 1.1	Section 335-3-101	Purpose
Part 1.3	Section 335-3-102	Definitions
Part 1.7	Section 335-3-103	Ambient Air Quality Standards
Part 1.9	Section 335-3-104	Monitoring, Records, and Reporting
Part 1.10	Section 335-3-105	Sampling and Test Methods
Part 1.11	Section 335-3-106	Compliance Schedule
Part 1.12	Section 335-3-107	Maintenance and Malfunctioning of Equipment; Reporting
Part 1.13	Section 335-3-108	Prohibition of Air Pollution
Sections 3.2.1 – 3.2.4 & Part 3.4	Section 335-3-109	Variances
Part 1.15	Section 335-3-110	Circumvention
Part 1.16	Section 335-3-111	Severability
Part 1.17	Section 335-3-112	Bubble Provision
Part 1.18	Section 335-3-113	Credible Evidence
Part 1.20	Section 335-3-115	Emissions Inventory Reporting Requirements
Chapter 2	Chapter No. 335-3-14	Air Permits
Part 2.1	Section 335-3-1401	General Provisions
Part 2.2, except 2.2.4(h)	Section 335-3-1402 <sup>2</sup>	Permit Procedures
Part 2.3	Section 335-3-1403	Standards for Granting Permits
Part 2.4	Section 335-3-1404 <sup>3</sup> , <sup>4</sup> , <sup>5</sup>	Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration (PSD)]
Part 2.5	Section 335-3-1405 <sup>6</sup>	Air Permits Authorizing Construction in or Near Nonattainment Areas
Chapter 4	Chapter No. 335-3-2	Air Pollution Emergency
Part 4.1	Section 335-3-201	Air Pollution Emergency
Part 4.3	Section 335-3-202	Episode Criteria
Part 4.4	Section 335-3-203	Special Episode Criteria
Part 4.5	Section 335-3-204	Emission Reduction Plans
Part 4.6	Section 335-3-205	Two Contaminant Episode
Part 4.7	Section 335-3-206	General Episodes
Part 4.8	Section 335-3-207	Local Episodes

<sup>&</sup>lt;sup>1</sup> ADEM amendments effective on December 7, 2018 have not been approved in the SIP by EPA.

<sup>&</sup>lt;sup>2</sup> ADEM amendments effective on September 7, 2000 and July 11, 2006 have not been approved in the SIP by EPA.

<sup>&</sup>lt;sup>3</sup> Exceptions to approval as of October 2, 2025: Except for changes to 335-3-14-.04(2)(w)1., state effective July 11, 2006, which lists a 100 ton per year significant net emissions increase for regulated NSR pollutants not otherwise specified at 335-3-14-.04(2)(w).

Exceptions to approval as of October 2, 2025: Except for the significant impact levels at 335-3-14-.04(10)(b).

<sup>&</sup>lt;sup>5</sup> Exceptions to approval as of October 2, 2025: Except for the second and third sentences of paragraph 335-3-14-.04(2)(bbb)2., as well as the second and fourth sentences of paragraph 335-3-14-.04(2)(bbb)3., which include changes from the vacated federal ERP rule.

<sup>&</sup>lt;sup>6</sup> Exceptions to approval as of October 2, 2025: Except for the portion of 335–3–14–.05(1)(k)20 stating "excluding ethanol production facilities that produce ethanol by natural fermentation"; and 335–3–14–.05(2)(c)3 (addressing fugitive emission increases and decreases). Except for 335–3–14–.05(1)(h) (the actual-to-potential test for projects that only involve existing emissions units); the last sentence at 335–3–14–.05(3)(g), stating "Interpollutant offsets shall be determined based upon the following ratios"; and the NNSR interpollutant ratios at 335–3–14–.05(3)(g)1–4.

JCDH Citation	State Citation	Title/Subject
Part 4.9	Section 335-3-208	Other Sources
Section 4.2.3	Section 335-3-209	Other Authority Not Affected
Chapter 5	Chapter No. 335-3-3	Control of Open Burning and Incineration
Sections 5.1.1 – 5.1.5 <sup>1</sup>	Section 335-3-301	Open Burning
Part 5.2	Section 335-3-302 <sup>2</sup>	Incinerators
Part 5.3 <sup>3</sup> , except 5.3.4	Section 335-3-303	Incineration of Wood, Peanut, and Cotton Ginning Waste
Chapter 6	Chapter No. 335-3-4	Control of Particulate Emissions
Part 6.1 <sup>4</sup>	Section 335-3-401	Visible Emissions
Part 6.2	Section 335-3-402 <sup>5</sup>	Fugitive Dust and Fugitive Emissions
Part 6.3	Section 335-3-403	Fuel Burning Equipment
Part 6.4	Section 335-3-404	Process Industries—General
Part 6.5 <sup>6</sup>	Section 335-3-405	Small Foundry Cupola
Part 6.6 <sup>7</sup>	Section 335-3-406	Cotton Gins
Part 6.7	Section 335-3-407	Kraft Pulp Mills
Part 6.8	Section 335-3-408	Wood Waste Boilers
Part 6.9	Section 335-3-409	Coke Ovens
No equivalent provision	Section 335-3-410	Primary Aluminum Plants
Part 6.10	Section 335-3-411	Cement Plants
Part 6.12	Section 335-3-412	Xylene Oxidation Process
No equivalent provision	Section 335-3-4138	Sintering Plants
No equivalent provision	Section 335-3-414	Grain Elevators
No equivalent provision	Section 335-3-415	Secondary Lead Smelters
No equivalent provision	Section 335-3-417	Steel Mills Located in Etowah County
Chapter 7	Chapter No. 335-3-5	Control of Sulfur Compound Emissions
Part 7.1	Section 335-3-501	Fuel Combustions
Part 7.2 is not equivalent	Section 335-3-502	Sulfuric Acid Plants
No equivalent provision	Section 335-3-503	Petroleum Production
No equivalent provision	Section 335-3-504	Kraft Pulp Mills
No equivalent provision	Section 335-3-505	Process Industries—General
Part 7.6	Sections 335-3-506 through 335-3-536	TR SO <sub>2</sub> Trading Program
Chapter 8	Chapter No. 335-3-6	Control of Organic Emissions
Part 8.19	Section 335-3-624	Applicability
Part 8.2	Section 335-3-625	VOC Water Separation
Part 8.3	Section 335-3-626 <sup>10</sup> ,	Loading and Storage of VOC
Part 8.4	Section 335-3-627	Fixed-Roof Petroleum Liquid Storage Vessels
Part 8.5	Section 335-3-628	Bulk Gasoline Plants
Part 8.6	Section 335-3-629	Gasoline Terminals

<sup>&</sup>lt;sup>1</sup> See also Guidelines & Standard Operating Procedures for Issuance of Open Burning Authorizations at the end of Chapter 5. ADEM 335-3-3-.01(2)(b)(6) also prohibits open burning during declared air stagnation advisories and drought emergencies.

<sup>&</sup>lt;sup>2</sup> Amendments to 335-3-3-.02 effective September 19, 1991 have not been approved into the SIP by EPA.

<sup>&</sup>lt;sup>3</sup> JCDH has no equivalent for ADEM 335-3-3-.03(5), which states "Each incinerator subject to this Rule shall be properly designed, equipped, and maintained for its maximum rated burning capacity and shall be equipped with an underfire forced air system, an over-fire air recirculation secondary construction system, and variable control damper, all of which shall be electronically controlled to insure the optimum temperature range for the complete combustion of the amount and type of material waste being charged into the incinerator. Each such incinerator shall be equipped with a temperature recorder which shall be operated continuously with the incinerator, and the temperature records shall be made available for inspection at the request of the Director."

<sup>&</sup>lt;sup>4</sup> ADEM has no equivalent to Section 6.1.8.

<sup>&</sup>lt;sup>5</sup> ADEM 335-3-4-.02(4) was removed effective July 15, 1999, however, the provision is still included in the EPA-approved SIP.

<sup>&</sup>lt;sup>6</sup> All allowable emissions rates in Table 6-3 should be construed to have 2 significant figures, consistent with ADEM 335-3-4-.05, Table 4-3.

<sup>&</sup>lt;sup>7</sup> All allowable emissions rates in Table 6-4 should be construed to have 1 significant figure, consistent with ADEM 335-3-4-.06, Table 4-4.

<sup>8</sup> ADEM has removed and reserved this section, however it remains listed in the EPA approved SIP. See 40 CFR 52.50(c).

<sup>&</sup>lt;sup>9</sup> The definition of "low-use coating" at ADEM 335-3-6-.24(2)(d) is located at JCDH Part 1.3.

<sup>&</sup>lt;sup>10</sup> Amendments to 335-3-6-.26 effective September 21, 1989 and July 31, 1991 have not been approved into the SIP by EPA. The EPA-approved SIP requires a disposal system in conjunction with equipment required by ADEM 335-3-6-.26(2)(c)1.(i) (JCDH 8.3.2(c)(1)(i)).

JCDH Citation	State Citation	Title/Subject
Part 8.7, except 8.7.4(b) & 8.7.5(e)	Section 335-3-630	Gasoline Dispensing Facilities Stage 1
No equivalent provision	Section 335-3-631 <sup>1</sup>	Petroleum Refinery Sources
Part 8.11	Section 335-3-632	Surface Coating
Part 8.12	Section 335-3-633	Solvent Metal Cleaning
Part 8.13	Section 335-3-634	Cutback and Emulsified Asphalt
No equivalent provision	Section 335-3-635 <sup>2</sup>	Petition for Alternative Controls
Part 8.15	Section 335-3-636	Compliances Schedules
Part 8.16 <sup>3</sup>	Section 335-3-637	Test Methods and Procedures
No equivalent provision	Section 335-3-638	Reserved
Part 8.18	Section 335-3-639	Manufacture of Synthesized Pharmaceutical Products
Part 8.20, except 8.20.8	Section 335-3-641	Leaks from Gasoline Tank Trucks and Vapor Collection Systems
No equivalent provision	Section 335.3.642	Reserved
Part 8.22	Section 335-3-643	Graphic Arts
Part 8.23	Section 335-3-644	Petroleum Liquid Storage in External Floating Roof Tanks
Part 8.24	Section 335-3-645	Large Petroleum Dry Cleaners
No equivalent provision	Section 335-3-646	Reserved
Part 8.26	Section 335-3-647	Leaks from Coke by-Product Recovery Plant Equipment
Part 8.27	Section 335-3-648	Emissions from Coke by-Product Recovery Plant Coke Oven Gas Bleeder
Part 8.28	Section 335-3-649	Manufacture of Laminated Countertops
Part 8.29	Section 335-3-650	Paint Manufacture
Part 8.23 <sup>4</sup>	Section 335-3-653	List of EPA Approved and Equivalent Test Methods and Procedures for the Purpose of Determining VOC Emissions
Chapter 9	Chapter No. 335-3-7	Control of Carbon Monoxide Emissions
Part 9.1	Section 335-3-701	Metals Productions
Part 9.2	Section 335-3-702	Petroleum Processes
Chapter 10	Chapter No. 335-3-8	Control of Nitrogen Oxides Emissions
Part 10.1	Section 335-3-801	Standards for Portland Cement Kilns
Part 10.2	Section 335-3-802	Nitric Acid Manufacturing
Part 10.3	Section 335-3-803	NO <sub>X</sub> Emissions from Electric Utility Generating Units
Part 10.4	Section 335-3-804	Standards for Stationary Reciprocating Internal Combustion Engines
Part 10.5	Section 335-3-805	New Combustion Sources
Part 10.7	Sections 335-3-807 through 335-3-838	TR NO <sub>X</sub> Annual Trading Program
Part 10.8	Sections 335-3-839 through 335-3-870	TR NO <sub>X</sub> Ozone Season Trading Program
Part 10.9	Sections 335-3-871 & 335-3-872	NO <sub>X</sub> Budget Program
Chapter 11	Chapter No. 335-3-9	Control of Emissions from Motor Vehicles
Part 11.1	Section 335-3-901	Visible Emission Restriction for Motor Vehicles
Part 11.2	Section 335-3-902	Ignition System and Engine Speed
Part 11.3	Section 335-3-903	Crankcase Ventilation Systems
Part 11.4	Section 335-3-904	Exhaust Emission Control Systems
Part 11.5	Section 335-3-905	Evaporative Loss Control Systems

 $<sup>^1</sup>$  ADEM has removed and reserved this section, however it remains listed in the EPA approved SIP. See 40 CFR 52.50(c).  $^2$  Amendments to 335-3-6-.35 effective July 31, 1991 have not been approved into the SIP by EPA.

<sup>&</sup>lt;sup>3</sup> Federally enforceable testing provisions for perchloroethylene dry cleaning systems are located at ADEM 335-3-6-.37(5) and federally enforceable testing provisions for capture efficiency for VOC capture and control systems are located at ADEM 335-3-6-.37(13). JCDH 8.16.5 is reserved, and JCDH 8.16.13 is very brief.

<sup>&</sup>lt;sup>4</sup> Test Methods 204, 204A-204F are not included in the EPA-approved SIP.

JCDH Citation	State Citation	Title/Subject
Part 11.6	Section 335-3-906	Other Prohibited Acts
Part 11.7	Section 335-3-907	Effective Date
No equivalent provision	Chapter No. 335-3-12 <sup>1</sup>	Continuous Monitoring Requirements for Existing Sources
No equivalent provision	Chapter No. 335-3-13	Control of Fluoride Emissions
Chapter 17	Chapter No. 335-3-15	Synthetic Minor Operating Permits
Part 17.1	Section 335-3-1501 <sup>2</sup>	Definitions
Part 17.2, except 17.2.8(h)(7)	Section 335-3-1502	General Provisions
Part 17.3	Section 335-3-1503	Applicability
Part 17.4 <sup>3</sup>	Section 335-3-1504	Synthetic Minor Operating Permit Requirements
Part 17.5, except 17.5.2	Section 335-3-1505	Public Participation
Chapter 19	Chapter No. 335-3-17	Conformity of Federal Actions to State Implementation Plans
Part 19.1	Section 335-3-1701	Transportation Conformity
Part 19.2	Section 335-3-1702	General Conformity

<sup>&</sup>lt;sup>1</sup> Amendments to 335-3-12-.02 effective September 7, 2000 have not been approved into the SIP by EPA.

<sup>2</sup> Amendments to 335-3-15-.01 effective January 16, 1997 have not been approved into the SIP by EPA. Only the first sentence of ADEM 335-3-15-.01(g) is approved into the SIP. JCDH does not include the unapproved language.

<sup>3</sup> The federally enforceable provisions of ADEM 335-3-15-.04(3)(c) are located at JCDH 2.1.7(a).