



MAJOR SOURCE OPERATING PERMIT

Permitee:	Acme Brick Tile & Stone, Inc.
Facility Name:	ACME Brick Tile & Stone – Montgomery Plant
Facility No.:	209-0011
Location:	Montgomery, Montgomery County, Alabama

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

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

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

Alabama Department of Environmental Management

TABLE OF CONTENTS

GENERAL PERMIT PROVISOS	4
SUMMARY PAGE FOR CLAY BODY PREPARATION	23
PROVISOS FOR CLAY BODY PREPARATION	24
Applicability	24
Emission Standards	24
Compliance and Performance Test Methods and Procedures	25
Emission Monitoring	25
Recordkeeping and Reporting Requirements	25
SUMMARY PAGE FOR FORMING & COATING PROCESS	26
PROVISOS FOR FORMING & COATING PROCESS	27
Applicability	27
Emission Standards	27
Compliance and Performance Test Methods and Procedures	
Emission Monitoring	
Recordkeeping and Reporting Requirements	
SUMMARY PAGE FOR BRICK DRYERS AND TUNNEL KILNS 1 & 2	29
PROVISOS FOR BRICK DRYERS AND TUNNEL KILNS 1 & 2	
Applicability	
Emission Standards	
Compliance and Performance Test Methods and Procedures	
Emission Monitoring	
Recordkeeping and Reporting Requirements	
APPENDIX A	34
CAM PLAN FOR TUNNEL KILNS 1 & 2 (TK-1 & TK-2) CONTROLLED BY DI	FF-135
Indicator	
Indicator Range	
Performance Criteria	
CAM PLAN FOR TUNNEL KILNS 1 & 2 (TK-1 & TK-2) LIME INJECTION FE	

Indicator	
Indicator Range	
Performance Criteria	
CAM PLAN FOR COATING AND TEXTURING (C-1) CO	ONTROLLED BY BH-138
Indicator	
Indicator Range	
Performance Criteria	
CAM PLAN FOR SAND DRYER AND ROTARY BLEND	DER CONTROLLED BY BH-2 40
Indicator	
Indicator Range	
Performance Criteria	

Fede	ally Enforceable Provisos	Regulations
1.	Transfer	
	This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-1613(1)(a)5.	Rule 335-3-1602(6)
2.	Renewals	
	An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.	Rule 335-3-1612(2)
	The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.	
3.	Severability Clause	
	The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.	Rule 335-3-1605(e)
4.	Compliance	
	(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.	Rule 335-3-1605(f)

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(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.	Rule 335-3-1605(g)	
Termination for Cause		
This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.	Rule 335-3-1605(h)	
Property Rights		
The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	Rule 335-3-1605(i)	
Submission of Information		
The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.	Rule 335-3-1605(j)	
Economic Incentives, Marketable Permits, and Emissions Trading		
No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.	Rule 335-3-1605(k)	
	 (b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity. Termination for Cause This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition. Property Rights The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege. Submission of Information The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit. Economic Incentives, Marketable Permits, and Emissions Trading No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this 	

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9.		tification of Truth, Accuracy, and npleteness:		
	data to resp com on i inqu	application form, report, test data, monitoring , or compliance certification submitted pursuant this permit shall contain certification by a onsible official of truth, accuracy, and pleteness. This certification shall state that, based information and belief formed after reasonable tiry, the statements and information in the ament are true, accurate and complete.	Rule 335-3-1607(a)	
L O.	Insp	ection and Entry		
	as n auth of Er	n presentation of credentials and other documents hay be required by law, the permittee shall allow horized representatives of the Alabama Department hvironmental Management and EPA to conduct the wing:	Rule 335-3-1607(b)	
	(a)	Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;		
	(b)	Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;		
	(c)	Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;		
	(d)	Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.		
11.	Com	pliance Provisions		
	(a)	The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.	Rule 335-3-1607(c)	

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	(b)	The with effec		
12.	Com	plianc	e Certification	
		-	ce certification shall be submitted annually lays after the effective date of this permit.	Rule 335-3-1607(e)
	(a)		compliance certification shall include the wing:	
		́ о	The identification of each term or condition f this permit that is the basis of the ertification;	
		(2)	The compliance status;	
		(3)	The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-1605(c) (Monitoring and Recordkeeping Requirements);	
		(4)	Whether compliance has been continuous or intermittent;	
		(5)	Such other facts as the Department may require to determine the compliance status of the source;	
	(b)	The to:	compliance certification shall be submitted	
А	labama	-	artment of Environmental Management Air Division P.O. Box 301463 ontgomery, AL 36130-1463	
			and to:	
		Air I	Enforcement & Toxics Branch EPA Region 4 61 Forsyth Street, SW Atlanta, GA 30303	

Fede	rally l	Enforceable Provisos	Regulations
13.	Reo	pening for Cause	
		er any of the following circumstances, this permit be reopened prior to the expiration of the permit:	Rule 335-3-1613(5)
	(a)	Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.	
	(b)	Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.	
	(c)	The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.	
	(d)	The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.	
L4.	<u>Add</u> i	itional Rules and Regulations	
	Regu even shal	permit is issued on the basis of Rules and allations existing on the date of issuance. In the t additional Rules and Regulations are adopted, it be the permit holder's responsibility to comply such rules.	§22-28-16(d), Code of Alabama 1975, as amended
15.	<u>Equi</u>	pment Maintenance or Breakdown	

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(a)	In the case of shutdown of air pollution cor equipment (which operates pursuant to permit issued by the Director) for necess scheduled maintenance, the intent to se down such equipment shall be reported to Director at least twenty-four (24) hours priot the planned shutdown, unless such shutd is accompanied by the shutdown of the soft which such equipment is intended to con Such prior notice shall include, but is limited to the following:	any sary shut o the or to own urce trol.
	(1) Identification of the specific facility t taken out of service as well as its loca and permit number;	
	(2) The expected length of time that the pollution control equipment will be or service;	
	(3) The nature and quantity of emission air contaminants likely to occur du the shutdown period;	
	(4) Measures such as the use of off-s labor and equipment that will be ta to minimize the length of the shutd period;	aken
	(5) The reasons that it would be impose or impractical to shut down the som operation during the maintena period.	urce
(b)	In the event that there is a breakdown equipment or upset of process in suc- manner as to cause, or is expected to ca- increased emissions of air contaminants wi are above an applicable standard, the per responsible for such equipment shall notify Director within 24 hours or the next work day and provide a statement giving all pertin- facts, including the estimated duration of breakdown. The Director shall be notified we the breakdown has been corrected.	h a use, hich rson 7 the king nent 7 the

Federally Enforceable Provisos				Regulations
16.	Oper	ation o	of Capture and Control Devices	
	for w and minin Proce prope	hich the operate nize edures erly ope	tion control devices and capture systems his permit is issued shall be maintained ed at all times in a manner so as to the emissions of air contaminants. for ensuring that the above equipment is erated and maintained so as to minimize h of air contaminants shall be established.	§22-28-16(d), Code of Alabama 1975, as amended
17.	Obno	xious	<u>Odors</u>	
	obno: verific the deter Envir	xious o ed by A odorou minatio ronmen	is issued with the condition that, should dors arising from the plant operations be air Division inspectors, measures to abate as emissions shall be taken upon a on by the Alabama Department of tal Management that these measures are and economically feasible.	Rule 335-3-108
18.	Fugit	tive Du	<u>ist</u>	
	(a)	(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.		Rule 335-3-402
	(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:			
		(1)	By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;	
		(2)	By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;	
		(3)	By paving;	
		(4)	By the application of binders to the road surface at any time the road surface is	

Fede	rally l	Enforc	eable Provisos	Regulations
			found to allow the creation of dust emissions;	
	Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.			
19.	<u>Add</u>	itions	and Revisions	
	mod		cations to this source shall comply with the n procedures in Rules 335-3-1613 or 14.	Rule 335-3-1613 and .14
20.	Rec	ordkee	ping Requirements	
	(a)		ords of required monitoring information of source shall include the following:	Rule 335-3-1605(c)2.
		(1)	The date, place, and time of all sampling or measurements;	
		(2)	The date analyses were performed;	
		(3)	The company or entity that performed the analyses;	
		(4)	The analytical techniques or methods used;	
		(5)	The results of all analyses; and	
		(6)	The operating conditions that existed at the time of sampling or measurement.	
	and at le sam infor record	suppor east 5 ple, me rmatior rds an inuous	of records of all required monitoring data rt information of the source for a period of years from the date of the monitoring easurement, report, or application. Support includes all calibration and maintenance ad all original strip-chart recordings for monitoring instrumentation and copies of required by the permit.	

Federally Enforceable Provisos			Regulations
21.	Repo	rting Requirements	
	(a)	Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335- 3-1604(9).	Rule 335-3-1605(c)3
	(b)	Deviations from permit requirements shall be reported within 48 hours or 2 working day of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.	
22.	<u>Emis</u>	sion Testing Requirements	
	Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.		Rule 335-3-105(3) Rule 335-3-104(1)
	The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.		
	To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:		
	(1)	The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.	
	(2)	A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe	

Fede	rally	Enforceable Provisos	Regulations	
		cleaning method and solvent to be used (if test procedures require probe cleaning).		
	(3)	A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.		
	(4)	A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.		
	sour sucł	retest meeting may be held at the request of the rece owner or the Air Division. The necessity for a meeting and the required attendees will be rmined on a case-by-case basis.		
	with unle	est reports must be submitted to the Air Division in 30 days of the actual completion of the test ss an extension of time is specifically approved by Air Division.		
23.	Payı	ment of Emission Fees		
	acco	ual emission fees shall be remitted each year ording to the fee schedule in ADEM Admin. Code r1-704.	Rule 335-1-704	
24.	<u>Oth</u>	er Reporting and Testing Requirements		
	reco malf Depa regu	mission of other reports regarding monitoring rds, fuel analyses, operating rates, and equipment functions may be required as authorized in the artment's air pollution control rules and lations. The Department may require emission ng at any time.	Rule 335-3-104(1)	
25.	<u>Title</u>	e VI Requirements (Refrigerants)		
	equi whic subs Appo main	facility having appliances or refrigeration pment, including air conditioning equipment, the use Class I or Class II ozone-depleting stances as listed in 40 CFR Part 82, Subpart A, endices A and B, shall service, repair, and thain such equipment according to the work tices, personnel certification requirements, and		

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			cycling and recovery equipment specified in t 82, Subpart F.	
	any duri of ar	Class I ng the	shall knowingly vent or otherwise release or Class II substance into the environment repair, servicing, maintenance, or disposal ce except as provided in 40 CFR Part 82,	
	and Repo	record orts sh	sible official shall comply with all reporting keeping requirements of 40 CFR §82.166. all be submitted to the US EPA and the t as required.	
26.	Che	mical A	Accidental Prevention Provisions	
	prese	ent in	al listed in Table 1 of 40 CFR §68.130 is a process in quantities greater than the uantity listed in Table 1, then:	40 CFR Part 68
	(a)		owner or operator shall comply with the isions in 40 CFR Part 68.	
	(b)	The follow	owner or operator shall submit one of the wing:	
		(1)	A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in §68.10(a) or,	
		(2)	A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.	
27.	<u>Disp</u>	lay of	Permit	
	time is is:	s at the sued is nspecti	t shall be kept under file or on display at all e site where the facility for which the permit located and will be made readily available on by any or all persons who may request	Rule 335-3-1401(1)(d)

Fede	rally E	Inforceable Provisos	Regulations
	of an in re emitt conta	erson shall cause or permit the installation or use by device or any means which, without resulting duction in the total amount of air contaminant ced, conceals or dilutes any emission of air aminant which would otherwise violate the ion 3 rules and regulations.	Rule 335-3-110
29.	<u>Visit</u>	le Emissions	
	provi emis avera perio minu great CFR	ss otherwise specified in the Unit Specific sos of this permit, any source of particulate sions shall not discharge more than one 6-minute age opacity greater than 20% in any 60-minute d. At no time shall any source discharge a 6- te average opacity of particulate emissions ter than 40%. Opacity will be determined by 40 Part 60, Appendix A, Method 9, unless otherwise fied in the Unit Specific provisos of this permit.	Rule 335-3-401(1)
30.	<u>Fuel</u>	-Burning Equipment	
	(a)	Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Rule 335- 3-403.	Rule 335-3-403
	(b)	Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Rule 335-3-501.	Rule 335-3-501
31.	<u>Proc</u>	<u>ess Industries – General</u>	
	provi parti	ss otherwise specified in the Unit Specific sos of this permit, no process may discharge culate emissions in excess of the emissions fied in Rule 335-3-404.	Rule 335-3-404
32.	Aver	aging Time for Emission Limits	
		ss otherwise specified in the permit, the averaging for the emission limits listed in this permit shall	Rule 335-3-105

Fede	rally Enforceable Provisos	Regulations
	be the nominal time required by the specific test method.	
33.	Compliance Assurance Monitoring (CAM)	40 CFR 64
	Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.	
	(a) Operation of Approved Monitoring	40 CFR 64.7
	(1) Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).	
	(2) <i>Proper maintenance</i> . At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.	
	(3) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control	

Federally Enforceable Provisos	Regulations
system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	
(4) Response to excursions or exceedances. (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.	
 (5) Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to 	

After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or

ederally Enforceable Provisos	Regulations
exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.	
(b) Quality Improvement Plan (QIP) Requirements	40 CFR 64.8
(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant- specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.	
(2) Elements of a QIP:	
a. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.	
b. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include	

Federally Enforce	able Provisos	Regulations
-	ocedures for conducting one or more of e following actions, as appropriate:	
i.	Improved preventive maintenance practices.	
ii.	Process operation changes.	
iii.	Appropriate improvements to control methods.	
iv.	Other steps appropriate to correct control performance.	
v.	More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).	
develo as pra if the conta date o	IP is required, the owner or operator shall op and implement a QIP as expeditiously acticable and shall notify the Department period for completing the improvements ined in the QIP exceeds 180 days from the on which the need to implement the QIP etermined.	
subse 33(a)(that a	ving implementation of a QIP, upon any equent determination pursuant to Section 4)(b) above, the Department may require an owner or operator make reasonable ges to the QIP if the QIP is found to have:	
	iled to address the cause of the control vice performance problems; or	
co pr ac	iled to provide adequate procedures for rrecting control device performance oblems as expeditiously as practicable in cordance with good air pollution control actices for minimizing emissions.	
owner with stand	mentation of a QIP shall not excuse the r or operator of a source from compliance any existing emission limitation or ard, or any existing monitoring, testing, ting or recordkeeping requirement that	

rally Enforceable Provisos		Regulations
	ay apply under federal, state, or local law, or ay other applicable requirements under the et.	
c) Repo	rting and Recordkeeping Requirements	40 CFR 64.9
(1) <i>Ge</i>	eneral reporting requirements	
a.	On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code r. 335-3-1605(c)3.	
b.	A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code r. 335-3-1605(c)3. and the following information, as applicable:	
	i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;	
/	ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and	
	iii. A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.	

Federally Enfo	Regulations	
(2) Ge	eneral recordkeeping requirements.	
a.	The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code r. 335-3-1605(c)2. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).	
b.	Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	
(d) Savir	ngs Provisions	40 CFR 64.10
Nothi	ng in this part shall:	
co lir m re st re of ap m leg es pu im	scuse the owner or operator of a source from impliance with any existing emission nitation or standard, or any existing onitoring, testing, reporting or recordkeeping quirement that may apply under federal, ate, or local law, or any other applicable quirements under the Act. The requirements this part shall not be used to justify the oproval of monitoring less stringent than the onitoring which is required under separate gal authority and are not intended to tablish minimum requirements for the urpose of determining the monitoring to be posed under separate authority under the ct, including monitoring in permits issued	

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Federally En	forceable Provisos	Regulations
	pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.	
	Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.	
	Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.	
		I

Summary Page for Clay Body Preparation

Permitted

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission Limit	Regulation
DS-1	Disintegrator	РМ	Lesser of: 2.5 lb/hr or E=17.31P ^{0.16}	Rule 335-3-1404 (Anti-PSD) or Rule 335-3-404(1)
		Opacity	10% (Fugitives)	40 CFR 60 Subpart OOO §60.672(b)
S-1	PM S-1 Screens Opaci		Lesser of: 2.5 lb/hr or E=17.31P ^{0.16}	Rule 335-3-1404 (Anti-PSD) or Rule 335-3-404(1)
			10%	40 CFR 60 Subpart OOO §60.672(e)(2)

Provisos for Clay Body Preparation

Federally Enforceable Provisos	Regulations	
Applicability		
1. These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603	
2. The screening operations and belt conveyors associated with the Clay Body Preparation operation are subject to the applicable requirements of 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants".	Rule 335-3-1002(67) 40 CFR §60.670(a)	
3. The screening operations and belt conveyors associated with the Clay Body Preparation operation are subject to the applicable requirements of 40 CFR 60 Subpart A, "General Provisions", except as specified in Table 1 to 40 CFR 60 Subpart OOO.	Rule 335-3-1002(1) 40 CFR §60.1(a) 40 CFR §60.670(f)	
 These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-404(1), "Control of Particulate Emissions for Process Industries – General" as described in General Proviso No. 31. 	Rule 335-3-404(1)	
5. These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-401(1), "Control of Particulate Emissions – Visible Emissions" as described in General Proviso No. 29.	Rule 335-3-401(1)	
6. These units have an enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration)".	Rule 335-3-1404 (Anti-PSD)	
Emission Standards		
1. Particulate matter emissions from the grinder or screens in this process shall not exceed the lesser of 2.5 lb/hr or that which is		
calculated using the process weight equation, as defined in ADEM Admin Code r. 335-3-404(1).	Rule 335-3-404(1)	
2. Fugitive emissions from these sources shall not exceed 10% opacity for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed trick or railcar loading stations or from any other affected facility (as defined in §60.670 and §60.671	40 CFR §60.672(b)	
3. If any transfer point on a conveyor belt or any other affected source is enclosed in a building, then each enclosed affected source must comply with the emission limits in §60.672(a) and (b), or the building enclosing the affected facility or facilities must comply with the following emission limits:	40 CFR §60.672(e)(2)	

Fe	derally Enforceable Provisos	Regulations
	(a) Fugitive emissions from the building openings (except for vents as defined in §60.671) must not exceed seven percent opacity; and	
	(b) Vents (as defined in §60.671) in the building must meet the applicable stack emission limits and compliance requirements in Table 2 of Subpart OOO.	
<u>Co</u>	mpliance and Performance Test Methods and Procedures	
1.	Method 5 or Method 17 of 40 CFR 60, Appendix A, shall be used in the determination of particulate emissions.	Rule 335-3-105
2.	Method 9 of 40 CFR 60, Appendix A, shall be used in the determination of the opacity of emissions from affected sources.	Rule 335-3-105
3.	Performance tests shall be conducted in accordance with §60.8. The facility shall use as reference methods and procedures those outlined in Appendix A. Alternatively, those methods specified in §60.675 may be referenced.	40 CFR §60.675
En	nission Monitoring	
1.	An observation of each emission point associated with these sources will be conducted at least weekly. If any visible emissions are noted at any time, corrective action shall be initiated within 2 hours to reduce the emissions. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-1605(c)1
<u>Re</u>	cordkeeping and Reporting Requirements	
1.	The facility shall maintain a record of all inspections, including visible emissions checks, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring. Each record shall be maintained in a form suitable for inspection for a period of five years from the date of generation.	Rule 335-3-1605(c)2
	The facility shall submit a written report of exceedances to the	Rule 335-3-1605(c)3

Summary Page for Sand Processing and Forming & Coating Process

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission Limit	Regulation
BH-1	BH-1 Sand Coating and Texturing Operation w/Baghouse		Lesser of: 1.0 lb/hr or E=3.59P ^{0.62}	Rule 335-3-1404 (Anti-PSD) or Rule 335-3-404(1)
	Operation w/ Dagnouse	Opacity	20% (See General Provisos)	Rule 335-3-401(1)
	Sand Dryer w/ Baghouse	Opacity	10% (See General Provisos)	40 CFR 60 Subpart UUU §60.732(b)
BH-2	3H-2 Rotary Blender w/ Baghouse	РМ	Lesser of: 1.29 lb/hr or E=3.59P ^{0.62}	Rule 335-3-1404 (Anti-PSD) or Rule 335-3-404(1)
		Opacity	20% (See General Provisos)	Rule 335-3-401(1)

Provisos for Sand Processing and Forming & Coating Process

Federally Enforceable Provisos	Regulations
Applicability	
1. These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603
2. These units have enforceable limits in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-1404, <i>"Air Permits Authorizing Construction in Clean Air</i> <i>Areas (Prevention of Significant Deterioration)"</i> .	(Anti-PSD)
3. These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-401(1), <i>"Control of Particulate Emissions – Visible Emissions"</i> , as described in General Proviso No. 29.	
 These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-404(1), "Control of Particulate Emissions for Process Industries – General", as described in General Proviso No. 31. 	
5. The sand dryer is subject to the applicable requirements of 40 CFR 60 Subpart UUU, "Standards of Performance for Calciners and Dryers in Mineral Industries".	Rule 335-3-1002(73) 40 CFR <u>§</u> 60.730(a)
 The sand dryer is subject to the applicable requirements of 40 CFR 60 Subpart A, "General Provisions". 	Rule 335-3-1002(1) 40 CFR §60.1(a)
7. The sand dryer, rotary blender, and coating and texturing operations are subject to 40 CFR Part 64, " <i>Compliance Assurance Monitoring</i> ".	
Emission Standards	
1. The particulate emission rate from the Rotary Blender (RB-1) shall not exceed the lesser of 1.29 lb/hr or that which is calculated	Rule 335-3-1404 (Anti-PSD)
using the process weight equation, as defined in ADEM Admin. Code r. 335-3-404(1).	Rule 335-3-404(1)
The particulate emission rate from the Sand Coating and Texturing (C-2) shall not exceed the lesser of 1.0 lb/hr or that	(Anti-PSD)
which is calculated using the process weight equation, as defined in ADEM Admin. Code r. 335-3-404(1).	Rule 335-3-404(1)
3. The particulate emission rate from the Sand Dryer shall not exceed 0.025 gr/dscf.	40 CFR §60.732(a)
4. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-404(1)
27	ļ

Federally Enforceable Provisos	Regulations
5. Emissions discharged from the stack associated with the Sand Dryer must not exceed 10 percent (10%) opacity, unless the emissions are discharged from an affected facility using a wet scrubbing control device.	
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR 60, Appendix A, shall be used in the determination of particulate emissions.	Rule 335-3-105
2. Method 9 of 40 CFR 60, Appendix A, shall be used in the determination of the opacity.	Rule 335-3-105
Emission Monitoring	
1. Each source permitted under this process shall be observed on a weekly basis for any visible emissions. Whenever any visible emissions are observed, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two hours, followed by an additional observation to confirm the visible emissions have ceased.	
2. Properly maintained and operated devices shall be utilized to measure the pressure differential between the inlets and exhausts of the baghouses to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differentials shall be checked on at least a weekly basis. Whenever a pressure differential is outside of the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range are to be initiated within two hours.	
3. Each pollution control device shall be inspected and cleaned at least annually.	Rule 335-3-1505(c)1.
Recordkeeping and Reporting Requirements	
1. The facility shall maintain a record of all inspections, including visible emissions checks, Method 9 observations, weekly pressure drop readings, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring. Each record shall be maintained in a form suitable for inspection for a period of five years from the date of generation.	
2. The facility shall submit a written report of exceedances of the stack opacity to the Department semi-annually.	Rule 335-3-1605(c)3.

Summary Page for Dryer and Tunnel Kilns 1 & 2

Permitted

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission Limit	Regulation
D-1-D-4	Brick Dryer Nos. 1-4 (D-1, D-2, D-3, & D-4)	РМ	The lesser of: 4.11 lb/hr from combination of dryers or E=3.59P ^{0.62}	Rule 335-3-1404 (Anti-PSD) or Rule 335-3-404(1)
		Opacity	20% (See General Provisions)	Rule 335-3-401(1)
	tunnel Kilns 1 & 2 Controlled by Try Lime Injection Fabric Filter (DIFF-1)	РМ	The lesser of: 15 lb/hr or E=3.59P ^{0.62} (each)	Rule 335-3-1404 (Anti-PSD) or Rule 335-3-404(1)
		SO_2	N/A	N/A
		NO _X	N/A	N/A
		СО	N/A	N/A
TK-1 & TK-2		VOC	N/A	N/A
IK-1 & IK-2		HCI	9.9 TPY of any single HAP 23.5 TPY of any combination of HAPs	Rule 335-3-1601(q)(i)
		HF	9.9 TPY of any single HAP 23.5 TPY of any combination of HAPs	Rule 335-3-1601(q)(i)
		Opacity	20% (See General Provisions)	Rule 335-3-401(1)

Provisos for Brick Dryers and Tunnel Kilns 1 & 2

Fe	derally Enforceable Provisos	Regulations
Aŗ	plicability	
1.	These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, " <i>Major Source Operating Permits</i> ".	Rule 335-3-1603
2.	These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-401(1), " <i>Control of Particulate Emissions – Visible Emissions</i> " as described in General Proviso No. 29.	Rule 335-3-401(1)
3.	These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-404(1), "Control of Particulate Emissions for Process Industries – General", as described in General Proviso No. 31.	Rule 335-3-404(1)
4.	These units have enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335- 3-1404, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration].	Rule 335-3-1404 (Anti-PSD)
5.	This facility has enforceable limits in place in order to prevent it from being subject to 40 CFR 63 Subpart JJJJJ, "National Emissions Standards for Hazardous Air Pollutants for Brick and Structural Clay Products Manufacturing".	40 CFR 63 Subpart JJJJ [MACT Avoidance]
6.	The two tunnel kilns (TK-1 & TK-2) are subject to 40 CFR Part 64, <i>"Compliance Assurance Monitoring".</i>	40 CFR §64.2
Er	nission Standards	
1.	Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)
2.	The combined particulate matter emissions from the dryers shall not exceed the lesser of 4.11 lbs/hr or the allowable set by the	Rule 335-3-1404 (Anti-PSD)
	process weight equation, as defined in ADEM Admin. Code r. 335- 3-404(1).	Rule 335-3-404(1)
3.	Particulate matter emissions from each kiln in this process shall not exceed the lesser of 15.0 lbs/hr or the allowable set by the	Rule 335-3-1404 (Anti-PSD)
	process weight equation, as defined in ADEM Admin. Code r. 335- 3-404(1).	Rule 335-3-404(1)
4.	The total HF emission rate from the tunnel kilns 1 & 2 controlled by DIFF-1 shall not exceed 9.9 TPY, or 23.5 TPY of any combination of HAPs, as determined by EPA Method 26A of 40 CFR 60, Appendix A or Method 320 of 40 CFR 63, Appendix A.	40 CFR 63 Subpart JJJJJJ [MACT Avoidance]

Federally Enforceable Provisos	Regulations
5. The total HCl emission rate from kilns 1 and 2 controlled by DIFF 1 shall not exceed 9.9 TPY, or 23.5 TPY of any combination of HAPs, as determined by EPA Method 26A of 40 CFR 60, Appendia A or Method 320 of 40 CFR 63, Appendix A.	of JJJJJ [MACT Avoidance]
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR 60, Appendix A, shall be used in th determination of particulate emissions.	e Rule 335-3-105
2. Method 9 of 40 CFR 60, Appendix A, shall be used in th determination of opacity.	e Rule 335-3-105
3. Method 26A of 40 CFR 60, Appendix A, or an equivalent metho approved by the Department, shall be used for any testin conducted to determine compliance with HF and HCl emission limitations.	g
4. Method 320 of 40 CFR 63, Appendix A, shall be used as a additional method to demonstrate compliance with HF and HC emission limitations.	
Emission Monitoring	
1. Emission monitoring requirements for the Tunnel Kilns (TK-1 & TK-2), as specified in 40 CFR 64, <i>"Compliance Assurance Monitoring"</i> , can be found in Appendix A.	
2. The facility shall maintain free-flowing lime in the feed hopper of	
silo and to the DIFF at all times for continuous injection systems the lime feed rate shall be maintained, on a per ton of produc basis, at or above the level established during the most recen performance test.	40 CFR 64
3. An observation of each emission point associated with the dryer will be accomplished at least weekly. If visible emissions are note at any time, corrective action shall be initiated within 2 hours t reduce the emissions. After the corrective action has bee performed, the permittee shall conduct another visual check t ensure that the visible emissions have been reduced.	d o n
4. Prior to the shutdown of the tunnel kiln control device, a request shall be sent to the Department to justify the need for the routin maintence activities and the frequency of the maintenance activities. The facility must include the following information is the request:	e e
(a) Explanation as to why the maintenance cannot b accomplished during kiln shutdowns.	e

Fe	derally Enforceable Provisos	Regulations
	(b) Information should be provided stating whether the continued operation of the affected source will result in fewer emissions than shutting the source down while the maintenance is performed.	
	(c) A description of how the facility plans to minimize emissions during the maintenance.	
5.	Routine control device maintenance shall not exceed 5 percent of the annual operating uptime for each kiln.	Rule 335-3-1605(c)1.
6.	The facility must minimize the time period during which the kiln is operating and the control device is offline.	Rule 335-3-1605(c)1.
7.	Hydrogen Fluoride (HF) and Hydrogen Chloride (HCl) emission stack tests shall be conducted on the Tunnel Kilns at least once prior to each Permit renewal, but no more then 60 months from the most recent stack test.	Rule 335-3-1605(c)1.
	(a) Each test shall be conducted in accordance with the methods specified in the <i>Compliance and Performance Test Methods and Procedures</i> section of this subpart of the Permit.	
	(b) Each test shall consist of three separate runs. Each run must last at least one hour.	
	(c) During each test, the amount of controlled (outlet) and uncontrolled (inlet) HCl and HF emissions emitted from Tunnel Kilns shall be recorded.	
<u>Re</u>	cordkeeping and Reporting Requirements	
1.	The facility shall maintain a record of all inspections, including visible emissions checks, Method 9 observations, stack tests, problems noted, and corrective actions taken, performed to satisfy the requirements of periodic monitoring. Each record shall be maintained for a period of five years from the date of generation.	Rule 335-3-1605(c)2.
2.	A report documenting the results of each stack test shall be submitted to the Department within 60 days of the date of the test.	Rule 335-3-1605(c)3.
3.	Annual HF emissions from the operation of the tunnel kilns, as determined on a rolling twelve (12) month total, shall be calculated as follows:	Rule 335-3-1605(c)2.

Federally Enforceable Provisos	Regulations
$\frac{\text{Tons HF}}{12 - \text{month period}} = \frac{X}{12 - \text{month period}} \times EF_{HF} \frac{\text{lb}}{\text{ton}} \times \frac{1 \text{ ton}}{2,000 \text{ lb}}$	
12 – month period 12 – month period 21 HF ton $2,000$ lb	
Where X = recorded tons of production during the 12-month period and EF_{HF} = controlled emission factor from most recent Department approved stack test.	
5. Annual HCl emissions from the operation of the tunnel kilns, as determined on a rolling twelve (12) month total, shall be calculated as follows:	Rule 335-3-1605(c)2.
$\frac{\text{Tons HCl}}{12 - \text{month period}} = \frac{X}{12 - \text{month period}} \times EF_{HCl} \frac{\text{lb}}{\text{ton}} \times \frac{1 \text{ ton}}{2,000 \text{ lb}}$	
Where X = recorded tons of production during the 12-month period and EF _{HCl} = controlled emission factor from most recent Department approved stack test.	
5. Total HF emissions produced while the tunnel kiln control device is bypassed, shall be calculated as follows:	Rule 335-3-1605(c)2.
Tons HF = $X\left(\frac{\text{tons}}{\text{hr}}\right) \times B$ (hr) $\times EF_{HF}\left(\frac{\text{lb}}{\text{ton}}\right) \times \frac{1 \text{ ton}}{2,000 \text{ lb}}$	
Where X = recorded production during bypass, B = recorded number of hours in bypass, and EF _{HF} = uncontrolled emission factor from most recent Department approved stack test.	
7. Total HCl emissions produced while the tunnel kiln control device is bypassed, shall be calculated as follows:	Rule 335-3-1605(c)2.
Tons HCl = $X\left(\frac{\text{tons}}{\text{hr}}\right) \times B$ (hr) $\times EF_{HCl}\left(\frac{\text{lb}}{\text{ton}}\right) \times \frac{1 \text{ ton}}{2,000 \text{ lb}}$	
Where X = recorded production during bypass, B = recorded number of hours in bypass, and EF _{HCl} = uncontrolled emission factor from most recent Department approved stack test.	
8. The facility shall submit a written report of exceedances of the stack opacity to the Department semi-annually.	Rule 335-3-1605(c)3.

APPENDIX A

40 CFR 64

Compliance Assurance Monitoring (CAM) Requirements

CAM Plan for Tunnel Kiln (TK-1 & TK-2) Controlled by DIFF-1

	Parameter No.1	Parameter No. 2
Indicator	Visible Emissions (VE)	Bag Leak Detection System
A. Measurement Approach	1. An instantaneous observation of visible emissions from the baghouse shall be accomplished weekly while in operation.	 Bag leak detection monitor will produce a signal that is proportional to the particle loading in the fabric filter exhaust gas stream.
Indicator Range	 If the observed instantaneous opacity is greater than ten (10%) percent, a visible emissions observation shall be conducted within thirty (30) minutes of the observation in accordance with 40 CFR 60 Appendix A, Method 9, for a minimum of twelve (12) consecutive minutes. If the average opacity during the Method 9 visible emission observation exceeds ten (10%) percent, corrective action shall be initiated within two (2) hours. 	1. Variation in particulate electronic transfer signal.
Performance Criteria		
A. Data Representativeness	1. Measurement shall be made at the emission point stack DIFF-1.	 The bag leak detection monitor settings ensure proper operation. Alarm levels based on increase in normal cleaning

		peak heights or normal baseline signal.
B. QA/QC Practices and Criteria	 Trained and qualified personnel shall perform the visible inspection. The facility shall inspect and clean each baghouse no less frequently than annually and whenever visible emissions are observed. 	1. Calibrate, maintain, and operate instrumentation using procedures in accordance with manufacturer's specifications.
C. Monitoring Frequency	 Visible emissions observations shall be monitored and recorded weekly while each unit is in operation. 	1. Continuous
D. Data Collection Procedures	 Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. 	 Records of alarm occurrences including the date, time, emission point designation, emission point operation mode, a description of the problem, and any corrective actions taken during each alarm occurrence shall be kept in a permanent form suitable for inspection.
	2. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report.	
E. Averaging Period	1. VE observations are instantaneous.	1. Response time setting in accordance with manufacturer's recommendation.

CAM Plan for Tunnel Kiln (TK-1 & TK-2) Lime Injection Feed Rate

	Parameter No.1
Indicator	Lime Feed Rate
A. Measurement Approach	1. Lime feed rate is monitored by use of an electronic weigh feeder system.
Indicator Range	 Lime feed rates are established through performance testing on a per ton of fired product basis.
Performance Criteria	
A. Data Representativeness	 1. The weigh feeder system utilizes a scale to measure the lime feed in pounds (lbs) with a minimum accuracy of ± 2 lbs. Information from the scale is transmitted electronically, and the lime feed rate in pounds per hour (lb/hr) is displayed on a monitor. Inspections and inventory reconciliation are performed to verify that lime is present in the silo and is free flowing.
B. QA/QC Practices and Criteria	 Calibrate the scale on an annual basis at minimum. Maintain and operate the weigh feeder system using procedures in accordance with manufacturer's specifications. Personnel are trained to perform corrective actions per manufacturer's directions.
C. Monitoring Frequency	1. Continuous
D. Data Collection Procedures	 The lime feed rate in pounds per hour (lb/hr) is recorded daily. Records of the daily lime feed rate and all inspections including the date, time, a description of any observed problems, and any corrective actions taken shall be kept in a permanent form suitable for inspection.
E. Averaging Period	 Lime feed rate readings in pounds per hour (lbs/hr) are instantaneous.

CAM Plan for Coating and Texturing Controlled by BH-1

	Parameter No.1		Parameter No. 2	
Indicator		Visible Emissions (VE)		Pressure Differential (ΔP)
B. Measurement Approach	1.	An instantaneous observation of visible emissions from the baghouse shall be accomplished weekly while in operation.	1.	A properly maintained and operated device shall be utilized to measure the differential pressure across the baghouse. The device shall be located at eye level and be easily accessible for inspections by Air Division and plant personnel.
Indicator Range	2.	If the observed instantaneous opacity is greater than twenty (20%) percent, a visible emissions observation shall be conducted within thirty (30) minutes of the observation in accordance with 40 CFR 60 Appendix A, Method 9 for a minimum of twelve (12) consecutive minutes. If the average opacity during the Method 9 visible emission observation exceeds ten (10%) percent, corrective action shall be initiated within two (2) hours .	2.	Pressure drop (ΔP) across each baghouse shall be monitored and recorded weekly while the units are operating. An excursion shall be defined as an observed pressure drop (ΔP) less than 1 inch of water or greater than seven 6 inches of water. If the observed pressure drop (ΔP) is less than 1 inch of water or greater than 6 inches of water, corrective action shall be initiated within two (2) hours.
Performance Criteria				
F. Data Representativeness	1.	Measurement shall be made at the emission point stack BH-1.	1.	ΔP on the gauge is the measurement of pressure differential between the

		inlet and outlet of the baghouse.
G. QA/QC Practices and Criteria	 Trained and qualified personnel shall perform the visible inspection. The facility shall inspect and clean each baghouse no less frequently than annually and whenever visible emissions are observed. 	 Maintain and operate using procedures in accordance with manufacture's specifications. The differential pressure gauge shall be calibrated at least annually. Personnel performing differential pressure readings will be trained how to correctly take the readings and who to inform in case a corrective action is needed.
H. Monitoring Frequency	1. Visible emissions observation shall be monitored and recorded weekly while each unit is in operation.	 ΔP shall be monitored and recorded weekly while each unit is in operation and compared with the acceptable data range.
I. Data Collection Procedures	 Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the 	1. Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed pressure drop (ΔP), and any corrective actions taken during each pressure drop (ΔP) observation shall be kept in a permanent form suitable for inspection.
J. Averaging Period	ADEM visible emissions observation report.	 ΔP readings are
	instantaneous.	instantaneous.

CAM Plan for Sand Dryer and Rotary Blender Controlled by BH-2

	Parameter No.1			Parameter No. 2		
Indicator	Visible	e Emissions (VE)		Pressure Differential (ΔP)		
A. Measurement Approach	observ emissie baghou accom	tantaneous ation of visible ons from the use shall be plished weekly n operation.	1.	A properly maintained and operated device shall be utilized to measure the differential pressure across the baghouse. The device shall be located at eye level and be easily accessible for inspections by Air Division and plant personnel.		
Indicator Range	 instant greater percen emission shall b thirty observe with 40 A, Meti- minime consec 2. If the a during visible observe (10%) p action 	bbserved taneous opacity is than ten (10%) t, a visible ons observation e conducted within (30) minutes of the ation in accordance O CFR 60 Appendix hod 9 for a um of twelve (12) utive minutes. everage opacity the Method 9 emission ation exceeds ten percent, corrective shall be initiated two (2) hours.	2.	Pressure drop (ΔP) across each baghouse shall be monitored and recorded weekly while the units are operating. An excursion shall be defined as an observed pressure drop (ΔP) less than 1 inch of water or greater than seven 6 inches of water. If the observed pressure drop (ΔP) is less than 1 inch of water or greater than 6 inches of water, corrective action shall be initiated within two (2) hours.		
Performance Criteria						
A. Data Representativeness	made a	rement shall be at the emission tack BH-2.	1.	ΔP on the gauge is the measurement of pressure differential between the		

		inlet and outlet of the baghouse.
B. QA/QC Practices and Criteria	 Trained and qualified personnel shall perform the visible inspection. The facility shall inspect and clean each baghouse no less frequently than annually and whenever visible emissions are observed. 	 Maintain and operate using procedures in accordance with manufacture's specifications. The differential pressure gauge shall be calibrated at least annually. Personnel performing differential pressure readings will be trained how to correctly take the readings and who to inform in case a corrective action is needed.
C. Monitoring Frequency	 Visible emissions observation shall be monitored and recorded weekly while each unit is in operation. 	 ΔP shall be monitored and recorded weekly while each unit is in operation and compared with the acceptable data range.
D. Data Collection Procedures	 Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. If a visible emissions observation utilizing Method 9 is required, the 	1. Records of the observation date, observation time, emission point designation, emission point operation mode, name of the observer, observed pressure drop (ΔP), and any corrective actions taken during each pressure drop (ΔP) observation shall be kept in a permanent form suitable for inspection.
E. Averaging Period	results shall be documented using the ADEM visible emissions observation report.	 ΔP readings are
	instantaneous.	instantaneous.