



MAJOR SOURCE OPERATING PERMIT

Permittee: Lee Brass Found	
Facility Name:	Lee Brass Foundry, LLC
Facility No.:	301-0005
Location:	Anniston, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, <u>Ala. Code</u> §§ 22281 to 222823, as amended, the Alabama Environmental Management Act, <u>Ala. Code</u> §§ 2222A1 to 2222A17, 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: TBD, 2021

Expiration Date: **TBD**, 2026

TABLE OF CONTENTS

General Permit Provisos	7
SUMMARY PAGE FOR DIDION METAL RECOVERY, FOUR (4) METAL SAWS, PANGBORN BLAST MACHINE WITH BAGHOUSE #2 - FOUND	
PROVISOS FOR DIDION METAL RECOVERY, FOUR (4) METAL CUTT PANGBORN BLAST MACHINE WITH BAGHOUSE #2 - FOUNDRY 1	•
Applicability	25
Emission Standards	25
Compliance and Performance Test Methods and Procedures	26
Emission Monitoring	26
Recordkeeping and Reporting Requirements	26
SUMMARY PAGE FOR METAL CUTTING SAWS & GRINDING WHEEL BAGHOUSE #3	
PROVISOS FOR METAL CUTTING SAWS & GRINDING WHEELS WITH	
Applicability	29
Emission Standards	29
Compliance and Performance Test Methods and Procedures	29
Emission Monitoring	30
Recordkeeping and Reporting Requirements	30
SUMMARY PAGE FOR TWO (2) ELECTRIC INDUCTION CHANNEL FU FOUR (4) AJAX CORELESS FURNACES, DIDION METAL RECLAIMED LADLE HEATERS, AND ONE (1) POURING AND COOLING HOOD WIT #4	R, FOUR (4) TH BAGHOUSE
PROVISOS FOR TWO (2) ELECTRIC INDUCTION CHANNEL FURNAC AJAX CORELESS FURNACES, ONE (1) DIDION METAL RECLAIMER, LADLE HEATERS, AND ONE (1) POURING AND COOLING HOOD BAC #4	FOUR (4)

Applicability33	3
Emission Standards33	3
Compliance and Performance Test Methods and Procedures34	1
Emission Monitoring34	1
Recordkeeping and Reporting Requirements36	5
SUMMARY PAGE FOR MULLER SAND HANDLING SYSTEM AND METAL RECOVERY SYSTEM WITH BAGHOUSE #5 - FOUNDRY 1	8
PROVISOS FOR MULLER SAND HANDLING SYSTEM AND METAL RECOVERY SYSTEM WITH BAGHOUSE #5 - FOUNDRY 1	9
Applicability39)
Emission Standards39)
Compliance and Performance Test Methods and Procedures40)
Emission Monitoring40)
Recordkeeping and Reporting Requirements41	1
Summary Page for Brass Casting/Pouring Line with Baghouse #6 – Foundry 3 .42	2
Provisos for Brass Casting/Pouring Line with Baghouse #6 – Foundry 343	3
Applicability43	3
Emission Standards43	3
Compliance and Performance Test Methods and Procedures44	1
Emission Monitoring44	1
Recordkeeping and Reporting Requirements44	1
SUMMARY PAGE FOR TEN (10) ELECTRIC FURNACE AND SEVEN (7) LADLE HEATERS WITH BAGHOUSE #7 – FOUNDRY 346	,
PROVISOS FOR TEN (10) ELECTRIC FURNACE AND SEVEN (7) LADLE HEATERS WITH BAGHOUSE #7 - FOUNDRY 347	
Applicability	7

Emission Standards	47
Compliance and Performance Test Methods and Procedures	48
Emission Monitoring	48
Recordkeeping and Reporting Requirements	50
SUMMARY PAGE FOR FIVE (5) CUTOFF SAWS, ONE (1) WHEELA SHOTBLAST MACHINE, ONE (1) SINTO DRUM BLAST, ONE (1) F WITH BAGHOUSE #8 - FOUNDRY 3	PLASMA CUTTER
PROVISOS FOR FIVE (5) CUTOFF SAWS, ONE (1) WHEELABRAT MACHINE, ONE (1) SINTO DRUM BLAST, ONE (1) PLASMA CUTT BAGHOUSE #8 - FOUNDRY 3	TER WITH
Applicability	53
Emission Standards	53
Compliance and Performance Test Methods and Procedures	54
Emission Monitoring	54
Recordkeeping and Reporting Requirements	55
COUNDRY 3POUNDRY 3POUNDRY 3POUNDRY 3PROVISOS FOR MULLER SAND HANDLING SYSTEM WITH BAGING TOUNDRY 3POUNDRY 3 .	56 HOUSE #9 –
Applicability	57
Emission Standards	57
	58
Compliance and Performance Test Methods and Procedures	
Compliance and Performance Test Methods and Procedures Emission Monitoring	58

	Applicability	61
	Emission Standards	61
	Compliance and Performance Test Methods and Procedures	61
	Emission Monitoring	62
	Recordkeeping and Reporting Requirements	62
S	UMMARY PAGE FOR NORTH END CLEANING ROOM WITH BAGHOUSE #12	64
P]	ROVISOS FOR NORTH END CLEANING ROOM WITH BAGHOUSE #12	65
	Applicability	65
	Emission Standards	65
	Compliance and Performance Test Methods and Procedures	65
	Emission Monitoring	66
	Recordkeeping and Reporting Requirements	66
	Recordine eping and Reporting Requirements	
	UMMARY PAGE FOR THREE (3) WHEELABRATOR SHOTBLAST MACHINES INE (1) BCT DRUMBLAST WITH BAGHOUSE #13, #14, #15, & #16	AND
O P	UMMARY PAGE FOR THREE (3) WHEELABRATOR SHOTBLAST MACHINES	AND 68 ONE
O P	UMMARY PAGE FOR THREE (3) WHEELABRATOR SHOTBLAST MACHINES INE (1) BCT DRUMBLAST WITH BAGHOUSE #13, #14, #15, & #16	AND 68 ONE 69
O P	UMMARY PAGE FOR THREE (3) WHEELABRATOR SHOTBLAST MACHINES INE (1) BCT DRUMBLAST WITH BAGHOUSE #13, #14, #15, & #16	AND 68 ONE 69
O P	UMMARY PAGE FOR THREE (3) WHEELABRATOR SHOTBLAST MACHINES INE (1) BCT DRUMBLAST WITH BAGHOUSE #13, #14, #15, & #16	AND 68 ONE 69 69
O P	UMMARY PAGE FOR THREE (3) WHEELABRATOR SHOTBLAST MACHINES INE (1) BCT DRUMBLAST WITH BAGHOUSE #13, #14, #15, & #16	AND 68 ONE 69 69
O P	UMMARY PAGE FOR THREE (3) WHEELABRATOR SHOTBLAST MACHINES INE (1) BCT DRUMBLAST WITH BAGHOUSE #13, #14, #15, & #16	AND68 ONE69696969
O P ¹ (1	UMMARY PAGE FOR THREE (3) WHEELABRATOR SHOTBLAST MACHINES INE (1) BCT DRUMBLAST WITH BAGHOUSE #13, #14, #15, & #16	AND68 ONE6969696970
O P ¹ (1	UMMARY PAGE FOR THREE (3) WHEELABRATOR SHOTBLAST MACHINES INE (1) BCT DRUMBLAST WITH BAGHOUSE #13, #14, #15, & #16	AND 68 ONE 69 69 69 70 70
O P ¹ (1	UMMARY PAGE FOR THREE (3) WHEELABRATOR SHOTBLAST MACHINES INE (1) BCT DRUMBLAST WITH BAGHOUSE #13, #14, #15, & #16	AND68 ONE696969707072

Compliance and Performance Test Methods and Procedures73
Emission Monitoring74
Recordkeeping and Reporting Requirements74
SUMMARY PAGE FOR COMPACT ATTRITION RECLAMATION SYSTEM WITH BAGHOUSE #18 - FOUNDRY 3
PROVISOS FOR COMPACT ATTRITION RECLAMATION SYSTEM WITH BAGHOUSE #18 - FOUNDRY 3
Applicability77
Emission Standards77
Compliance and Performance Test Methods and Procedures
Emission Monitoring78
Recordkeeping and Reporting Requirements
SUMMARY PAGE FOR FOUNDRY 2 BACKUP GENERATOR & FOUNDRY 3 BACKUP GENERATOR
PROVISOS FOR FOUNDRY 2 BACKUP GENERATOR & FOUNDRY 3 BACKUP GENERATOR
Applicability81
Emission Standards81
Compliance and Performance Test Methods and Procedures82
Emission Monitoring83
Recordkeeping and Reporting Requirements83
APPENDIX CAM84

General Permit Provisos				
Fede	rally E	nforceable Provisos	Regulations	
1.	Trans	<u>sfer</u>		
	or oth	permit is not transferable, whether by operation of law nerwise, either from one location to another, from one of equipment to another, or from one person to another, t as provided in Rule 335-3-1613(1) (a) 5.	Rule 335-3-1602(6)	
2.	Rene	wals		
	six (6	plication for permit renewal shall be submitted at least of months, but not more than eighteen (18) months, the date of expiration of this permit.	Rule 335-3-1612(2)	
	to ope	ource for which this permit is issued shall lose its right erate upon the expiration of this permit unless a timely omplete renewal application has been submitted within me constraints listed in the previous paragraph.		
3.	Sever	rability Clause		
	if any or ph uncor judgm of thi section phras	rovisions of this permit are declared to be severable and section, paragraph, subparagraph, subdivision, clause, rase of this permit shall be adjudged to be invalid or astitutional by any court of competent jurisdiction, the nent shall not affect, impair, or invalidate the remainder s permit, but shall be confined in its operation to the n, paragraph, subparagraph, subdivisions, clause, or e of this permit that shall be directly involved in the oversy in which such judgment shall have been red.	Rule 335-3-1605(e)	
4.	Comp	<u>oliance</u>		
	(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)	
	(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)	

Fede	erally Enforceable Provisos	Regulations
5.	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)
6.	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)
7.	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)
8.	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)
9.	Certification of Truth, Accuracy, and Completeness:	
	Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.	Rule 335-3-1607(a)
10.	Inspection and Entry	
	Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized	Rule 335-3-1607(b)

r ede	rally E	Enforceable Provisos	Regulations
	repre	sentatives of the Alabama Department of Environmental agement and EPA to conduct the following:	
	(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)
	(b)	The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.	
12.	Com	pliance Certification	
		appliance certification shall be submitted annually within ays of the anniversary date of issuance of this permit.	Rule 335-3-1607(e)
	(a)	The compliance certification shall include the following:	
		(1) The identification of each term or condition of this permit that is the basis of the certification;	
		(2) The compliance status;	

			General Permit Provisos	
Fede	rally I	Enfor	ceable Provisos	Regulations
		(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	compliance certification shall be submitted to:	
	Alat	oama		
			and to:	
		A	ir and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303	
13.	<u>Reo</u> j	penin	g for Cause	
		-	of the following circumstances, this permit will be prior to the expiration of the permit:	Rule 335-3-1613(5)
	(a)	Air a re Suc eigh app if th	ditional applicable requirements under the Clean Act of 1990 become applicable to the permittee with emaining permit term of three (3) or more years. It is a reopening shall be completed not later than inteen (18) months after promulgation of the blicable requirement. No such reopening is required the effective date of the requirement is later than the e on which this permit is due to expire.	
	(b)	requ und Adr	ditional requirements (including excess emissions uirements) become applicable to an affected source der the acid rain program. Upon approval by the ministrator, excess emissions offset plans shall be med to be incorporated into this permit.	

General Permit Provisos				
Fede	rally E	nforce	able Provisos	Regulations
	(c)	conta state:	Department or EPA determines that this permit ins a material mistake or that inaccurate ments were made in establishing the emissions lards or other terms or conditions of this permit.	
	(d)	this	administrator or the Department determines that permit must be revised or revoked to assure liance with the applicable requirements.	
14.	<u>Addit</u>	tional	Rules and Regulations	
	existi: and F	ng on t Regulat	is issued on the basis of Rules and Regulations he date of issuance. In the event additional Rules ions are adopted, it shall be the permit holder's by to comply with such rules.	§22-28-16(d), Code of Alabama 1975, as amended
15.	<u>Equi</u>	pment	Maintenance or Breakdown	
	(a)	(whice Direct down hours shute source Such	se of shutdown of air pollution control equipment h operates pursuant to any permit issued by the tor) for scheduled maintenance, the intent to shut shall be reported to the Department at least 24 s prior to the planned shutdown, unless such down is accompanied by the shutdown of the se which such equipment is intended to control. prior notice shall include, but is not limited to bllowing:	Rule 335-3-107(1),(2)
		(1)	Identification of the specific facility to be taken out of service as well as its location and permit number;	
		(2)	The expected length of time that the air pollution control equipment will be out of service;	
		(3)	The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;	
		(4)	Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;	

		General Permit Provisos	
Fede	rally E	Inforceable Provisos	Regulations
		(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.	
	(b)	In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director will be notified when the breakdown has been corrected.	
16.	<u>Oper</u>	ation of Capture and Control Devices	
	this p times conta equip minir	r pollution control devices and capture systems for which permit is issued shall be maintained and operated at all in a manner so as to minimize the emissions of air aminants. Procedures for ensuring that the above oment is properly operated and maintained so as to mize the emission of air contaminants shall be blished.	§22-28-16(d), Code of Alabama 1975, as amended
17.	Obno	oxious Odors	
	odors Divis shall Depa	permit is issued with the condition that, should obnoxious arising from the plant operations be verified by Air ion inspectors, measures to abate the odorous emissions be taken upon a determination by the Alabama rtment of Environmental Management that these ures are technically and economically feasible.	Rule 335-3-108
18.	<u>Fugit</u>	tive Dust	
	(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:	

Fede	rally I	Enforc	eable Provisos	Regulations
		(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 found to allow the creation of dust emissions; or	
		fail thaulemptone will t	ald one, or a combination, of the above methods to adequately reduce airborne dust from plant or roads and grounds, alternative methods shall be loyed, either exclusively or in combination with or all of the above control techniques, so that dust not become airborne. Alternative methods shall be roved by the Department prior to utilization.	
19.	<u>Addi</u>	tions	and Revisions	
			ications to this source shall comply with the n procedures in Rules 335-3-1613 or 335-3-16-	Rule 335-3-1613 and .14
20.	Reco	rdkee	ping Requirements	
	(a)		ords of required monitoring information of the ree 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	

General Permit Provisos					
Fede	erally E	Enforceable Provisos	Regulations		
		(6) The operating conditions that existed at the time of sampling or measurement.			
	(b)	Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit			
21.	Repo	orting 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 days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.			
22.	<u>Emis</u>	ssion Testing Requirements			
	with equip proce	point of emission which requires testing will be provided sampling ports, ladders, platforms, and other safety oment to facilitate testing performed in accordance with edures established by Part 60 of Title 40 of the Code of ral Regulations, as the same may be amended or revised.	Rule 335-3-105(3) Rule 335-3-104(1)		
	in a subn	Air Division must be notified in writing at least 10 days dvance of all emission tests to be conducted and nitted as proof of compliance with the Department's air tion control rules and regulations.			
		roid problems concerning testing methods and procedures, ollowing shall be included with the notification letter:			
	(a)	The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, hoe many and which sources are to be tested, and the			

Fede	erally l	Enforceable Provisos	Regulations
		names of the persons and/or testing company that will conduct the tests.	
	(b)	A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).	
	(c)	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.	
	(d)	A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.	
	owne and	etest meeting may be held at the request of the source er or the Air Division. The necessity for such a meeting the required attendees will be determined on a case-by- basis.	
	30 d	est reports must be submitted to the Air Division within days of the actual completion of the test unless an usion of time is specifically approved by the Air Division.	
23.	Payn	nent of Emission Fees	
		ual emission fees shall be remitted each year according to fee schedule in ADEM Admin. Code R. 335-1-704.	Rule 335-1-704
24.	Othe	er Reporting and Testing Requirements	
	fuel may pollu	mission of other reports regarding monitoring records, analyses, operating rates, and equipment malfunctions be required as authorized in the Department's air ation control rules and regulations. The Department may ire emission testing at any time.	Rule 335-3-104(1)
25.	<u>Title</u>	VI Requirements (Refrigerants)	
	inclu Clas 82, S mair	facility having appliances or refrigeration equipment, ading air conditioning equipment, which use Class I or s II ozone-depleting substances as listed in 40 CFR Part Subpart A, Appendices A and B, shall service, repair, and itain such equipment according to the work practices, onnel certification requirements, and certified recycling	40 CFR Part 82, Subpart F

	General Permit Provisos				
Fede			eable Provisos	Regulations	
	and i	recove	ry equipment specified in 40 CFR Part 82, Subpart		
	I or C servi	Class II cing, 1	shall knowingly vent or otherwise release any Class substance into the environment during the repair, maintenance, or disposal of any device except as 40 CFR Part 82, Subpart F.		
	recor	dkeep	isible official shall comply with all reporting and ing requirements of 40 CFR 82.166. Reports shall ed to the US EPA and the Department as required.		
26.	Chen	nical A	Accidental Prevention Provisions		
	a pro	ocess	al listed in Table 1 of 40 CFR 68.130 is present in quantities greater than the threshold quantity ble 1, then:	40 CFR Part 68	
	(a)		owner or operator shall comply with the provisions 0 CFR Part 68.		
	(b)		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 40 CFR 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.	Disp	lay of	<u>Permit</u>		
	at th locat	e site ed ar	t shall be kept under file or on display at all times where the facility for which the permit is issued is ad will make the permit readily available for by any or all persons who may request to see it.	Rule 335-3-1401(1)(d)	
28.	Circu	ımven	tion		
	device in the dilut	ce or an le tota es an	shall cause or permit the installation or use of any ny means which, without resulting in the reduction I amount of air contaminant emitted, conceals or y emission of air contaminant which would violate the Division 3 rules and regulations.	Rule 335-3-110	

	General Fermit Flovisos	
	rally Enforceable Provisos	Regulations
29.	Visible Emissions	
	Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	Rule 335-3-401(1)
30.	Fuel-Burning Equipment	
	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
	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.	Process Industries – General	
	Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Rule 335-3-404.	Rule 335-3-404
32.	Averaging Time for Emission Limits	
	Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.	Rule 335-3-105
33.	Compliance Assurance Monitoring (CAM)	
	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	

Federally	Enforceab	le Provisos
-----------	-----------	-------------

Regulations

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) Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
- 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 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

Federally Enforceable Provisos

Regulations

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 achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

(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

General Permit Provisos				
Federally En	forceable Provisos	Regulations		
	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 procedures for conducting one or more of the 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).			
(3)	If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.			
(4)	Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:			

A. Failed to address the cause of the control device performance problems; or

lly Enf	General Permit Provisos orceable Provisos	Regulations
-	B. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.	
(5)	Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.	
(c) Repo	rting and Recordkeeping Requirements	40 CFR 64.9
(1)	General 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

21

Federally Enforceable Provisos

Regulations

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.

- (2) General recordkeeping requirements.
 - A. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-16-.05(c)2. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 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 of monitoring. adequacy or records 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) Savings Provisions

40 CFR 64.10

- (1) Nothing in this part shall:
 - A. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed

D 1 11 D 0 11 D 1			
Federally Enforceable Provisos	Regulations		
under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.			
B. Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but no limited to sections 114(a)(1) and 504(b), or state law, as applicable.			
C. Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.			

Summary Page for Didion Metal Recovery System, Four (4) Metal Cutting Saws, Pangborn Blast Machine with Baghouse #2 – Foundry 1

Permitted Operating

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
002	Didion Metal Recovery System, Four (4) Metal Cutting Saws, Pangborn Blast Machine with Baghouse #2 – Foundry 1	PM	The lesser of 5.5 lb/hr or the allowable set by $3.59(P)^{0.62}$	Rule 335-3-404 Rule 335-3-1404 (Anti-PSD)
002	Didion Metal Recovery System, Four (4) Metal Cutting Saws, Pangborn Blast Machine with Baghouse #2 – Foundry 1	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for Didion Metal Recovery System, Four (4) Cutting Saws, Pangborn Blast Machine with Baghouse #2 – Foundry 1

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-401, "Control of Particulate Emissions - Visible Emissions".	Rule 335-3-401
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-402(3), "Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions".	Rule 335-3-402
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-404, "Control of Particulate Emissions – Process Industries – General".	Rule 335-3-404
5. These sources 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 emissions from the stack associated with these units shall not exceed the lesser of the Anti-PSD limit of 5.5 lb/hr or the allowable as set by Rule 335-3-404(1).	Rule 335-3-404 Rule 335-3-1404 (Anti-PSD)
2. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the 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.	Rule 335-3-402(3)
3. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions.	Rule 335-3-105
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-105
Emission Monitoring	
1. The permittee shall perform a visual check, once per day, of the baghouse stack associated with these units. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed and not corrected within 1 hour period, then a Method 9 must be performed within 4 hours of observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-1605(c)1.
2. The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
(a) Check hopper, fan, and cleaning cycle for proper operation.	
(b) Check all hoods and ducts.	
(c) Record any repairs or observed problems.	
3. The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
(a) Once per year, inspect baghouse structure, access doors, door seals, and bags.	
(b) Once per year, perform an internal inspection of the baghouse hoppers.	
(c) Record any repairs or observed problems.	
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-1605(c)2.
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall	Rule 335-3-1605(c)2.

Federally Enforceable Provisos		Regulations
	include all problems observed, excursions, and corrective actions taken.	
3.	If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605(c)2.
4.	The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.

Summary Page for Metal Cutting Saws and Grinding Wheels with Baghouse #3

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
003	Metal Cutting Saws and Grinding Wheels with Baghouse #3	PM	The allowable set by 3.59(P) ^{0.62}	Rule 335-3-404
003	Metal Cutting Saws and Grinding Wheels with Baghouse #3	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for Metal Cutting Saws and Grinding Wheels with Baghouse #3

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-401, "Control of Particulate Emissions - Visible Emissions".	Rule 335-3-401
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-402(3), "Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions".	Rule 335-3-402
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-404, "Control of Particulate Emissions – Process Industries – General".	Rule 335-3-404
Emission Standards	
1. Particulate emissions from the stack associated with these units shall not exceed the allowable as set by Rule 335-3-404(1).	Rule 335-3-404
2. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the 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.	Rule 335-3-402(3)
3. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions from the stack.	Rule 335-3-105
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-105

Federally Enforceable Provisos		Regulations
Er	nission Monitoring	
1.	The permittee shall perform a visual check, once per day, of the baghouse stack associated with these units. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed and not corrected within 1 hour period, then a Method 9 must be performed within 4 hours of observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-1605(c)1.
2.	The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Check hopper, fan, and cleaning cycle for proper operation.	
	(b) Check all hoods and ducts.	
	(c) Record any repairs or observed problems.	
3.	The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Once per year, inspect baghouse structure, access doors, door seals, and bags.	
	(b) Once per year, perform an internal inspection of the baghouse hoppers.	
	(c) Record any repairs or observed problems.	
Re	cordkeeping and Reporting Requirements	
1.	All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-1605(c)2.
2.	The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.
3.	If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605(c).2

Federally Enforceable Provisos	Regulations
4. The facility shall maintain a record of all weekly and annual	Rule 335-3-1605(c)2.
baghouse inspections to satisfy the requirements of periodic	
monitoring. This shall include all problems observed, excursions,	
and corrective actions taken.	

Summary Page for Two (2) Electric Induction Channel Furnaces, Four (4) Ajax Coreless Furnaces, One (1) Didion Metal Reclaimer, Four (4) Ladle Heaters, and One (1) Pouring and Cooling Hood with Baghouse #4

Permitted Operating

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
004	Two (2) Electric Induction Channel Furnaces, Four (4) Ajax Coreless Furnaces, One (1) Didion Metal	PM	The allowable set by 3.59(P) ^{0.62}	Rule 335-3-404
	Reclaimer, Four (4) Ladle Heaters, and One (1) Pouring and Cooling Hood with Baghouse #4		0.034 g/dscm (0.015 gr/dscf) or 95% control efficiency	40 CFR §63.11550(b)(1)
004	Two (2) Electric Induction Channel Furnaces, Four (4) Ajax Coreless Furnaces, One (1) Didion Metal Reclaimer, Four (4) Ladle Heaters, and One (1) Pouring and Cooling Hood with Baghouse #4	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for Two (2) Electric Induction Channel Furnaces, Four (4) Ajax Coreless Furnaces, One (1) Didion Metal Reclaimer, Four (4) Ladle Heaters, and One (1) Pouring and Cooling Hood with Baghouse #4

Fe	derally Enforceable Provisos	Regulations
Aŗ	plicability	
1.	These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603
2.	These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-401, "Control of Particulate Emissions - Visible Emissions".	Rule 335-3-401
3.	These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-402(3), "Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions".	Rule 335-3-402
4.	These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-404, "Control of Particulate Emissions – Process Industries – General".	Rule 335-3-404
5.	The furnaces are subject to the applicable requirements of 40 CFR Part 63, Subpart ZZZZZZ, "National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Aluminum, Copper, and Other Nonferrous Foundries".	Rule 335-3-1106(155) 40 CFR §63.11544(a)(3)
6.	The furnaces are subject to the applicable requirements of 40 CFR Part 63 Subpart A, "General Provisions".	Rule 335-3-1106(1) 40 CFR §63.11555
Er	nission Standards	
1.	Particulate emissions from these units shall not exceed the allowable as set by Rule 335-3-404.	Rule 335-3-404
2.	The facility must achieve a particulate matter (PM) control efficiency of at least 95.0 percent or emit no more than an outlet PM concentration of 0.034 gram per dry standard cubic meter (g/dscm) (0.015 grains per dry standard cubic feet (gr/dscf)).	40 CFR §63.11550(b)(1)
3.	When dust, furnace, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to any rule or regulation, the Director may order that the 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	Rule 335-3-402(3)

Fe	ederally Enforceable Provisos	Regulations
	by removal or destruction of air contaminants before discharge to the open air.	
4.	Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)
5.	The permittee shall cover or enclose each melting furnace that is equipped with a cover or enclosure during the melting operation to the extent practicable (e.g., except when access is needed, including, but not limited to charging, alloy addition, and tapping).	40 CFR §63.11550(a)(1)
6.	The permittee shall purchase only metal scrap that has been depleted (to the extent practicable) of other nonferrous foundry HAP in the materials charged to the melting furnace, except metal scrap that is purchased specifically for its HAP metal content for use in alloying or to meet specifications for the casting. This requirement does not apply to material that is not scrap (e.g., ingots, alloys, sows) or to materials that are not purchased (e.g., internal scrap customer returns).	40 CFR §63.11550(a)(2)
7.	The permittee shall prepare and operate pursuant to a written management practices plan. The management practices plan must include the required management practices of §63.11550(a)(1) and (2) and may include any other management practices that are implemented at the facility to minimize emissions form melting furnaces. The facility must inform the appropriate employees of the management practices that they must follow. The facility may use the facility standard operating procedures as the management practices plan provided the standard operating procedures include the required management practices in §63.11550(a)(1) and (2).	40 CFR §63.11550(a)(3)
Co	ompliance and Performance Test Methods and Procedures	
1.	Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions.	Rule 335-3-105 40 CFR §63.11551(c)(1)(v)
2.	Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-105
Eı	nission Monitoring	
1.	The permittee shall perform a visual check, once per day, of the baghouse stack associated with these units. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed and not corrected within 1 hour period, then a Method 9 must be performed within 4 hours of observation. Maintenance	Rule 335-3-1605(c)1. 40 CFR §63.11552(b)(1)(i)

Fe	derally Enforceable Provisos	Regulations
	shall be performed as needed. Any repairs or observed problems shall be recorded.	
2.	The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Check hopper, fan, and cleaning cycle for proper operation.	
	(b) Check all hoods and ducts.	
	(c) Record any repairs or observed problems.	
3.	The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Once per year, inspect baghouse structure, access doors, door seals, and bags.	
	(b) Once per year, perform an internal inspection of the baghouse hoppers.	
	(c) Record any repairs or observed problems.	
Re	ecordkeeping and Reporting Requirements	
1.	All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-1605(c)2. 40 CFR §63.11553(d)
2.	The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.
3.	If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605(c)2.
4.	The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.
5.	The facility must keep the records specified in §63.11553(c)(1) through (5).	40 CFR §63.11553(c)

Federally Enforceable Provisos

Regulations

- 40 CFR §63.11553(e)
- 6. If a deviation occurs during a semiannual reporting period, you must submit a compliance report to your permitting authority according to the following requirements:
 - (a) The first reporting period covers the period beginning on the compliance date specified in §63.11545 and ending on June 30 or December 31, whichever date comes first after your compliance date. Each subsequent reporting period covers the semiannual period from January 1 through June 30 or from July 1 through December 31. Your compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after end of the semiannual reporting period.
 - (b) A compliance report must include the information §63.11553(e)(2)(i) through (iv).
 - (i) Company name and address
 - (ii) Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy and completeness of the content of the report.
 - (iii) Date of the report and beginning and ending dates of the reporting period.
 - (iv) Identification of the affected source, the pollutant being monitored, applicable requirement, description of deviation, and corrective action taken.

Summary Page for Muller Sand Handling System and Metal Recovery System with Baghouse #5

Permitted Operating

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

Emission Point #	Description	Pollutant	Emission limit	Regulation
005	Muller Sand Handling System and Metal Recovery System with Baghouse #5	PM	The allowable set by 17.31(P) ^{0.16}	Rule 335-3-404
005	Muller Sand Handling System and Metal Recovery System with Baghouse #5	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for Muller Sand Handling System and Metal Recovery System with Baghouse #5

Fe	ederally Enforceable Provisos	Regulations
Ap	plicability	
1.	This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603
2.	This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-401, "Control of Particulate Emissions - Visible Emissions".	Rule 335-3-401
3.	This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-402(3), "Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions".	Rule 335-3-402
4.	This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-404, "Control of Particulate Emissions – Process Industries – General".	Rule 335-3-404
5.	This source has an enforceable limit 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)
6.	For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR Part 64
Er	nission Standards	
1.	Particulate emissions from the stack associated with these units shall not exceed the allowable as set by Rule 335-3-404(1).	Rule 335-3-404
2.	The hours of operation for the sand handling system shall not exceed 6,000 hours in any consecutive rolling 12-month period.	Rule 335-3-1404 (Anti-PSD)
3.	When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the 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.	Rule 335-3-402(3)

Fe	derally Enforceable Provisos	Regulations
4.	Visible emissions from this source shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)
Co	empliance and Performance Test Methods and Procedures	
1.	Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions.	Rule 335-3-105
2.	Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-105
Er	nission Monitoring	
1.	Compliance Assurance Monitoring shall be conducted. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR Part 64
2.	The permittee shall perform a visual check, once per day, of the baghouse stack associated with these units. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed and not corrected within 1 hour period, then a Method 9 must be performed within 4 hours of observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-1605(c)1.
3.	The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Check hopper, fan, and cleaning cycle for proper operation.	
	(b) Check all hoods and ducts.	
	(c) Record any repairs or observed problems.	
4.	The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Once per year, inspect baghouse structure, access doors, door seals, and bags.	
	(b) Once per year, perform an internal inspection of the baghouse hoppers.	
	(c) Record any repairs or observed problems.	

Federally Enforceable Provisos	Regulations
Recordkeeping and Reporting Requirements	
 All records shall be maintained in a form suitable for inspection for a period of at least five (5) years. 	Rule 335-3-1605(c)2.
2. The facility shall maintain a record of monthly and 12-month rolling totals of hours of operation for this source.	Rule 335-3-1605(c)2.
3. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2. 40 CFR Part 64
4. If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605(c)2.
5. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.
6. The facility shall maintain a record of all differential pressure readings performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2. 40 CFR Part 64

Summary Page for Brass Casting/Pouring Line with Baghouse #6

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Point #	Description	Pollutant	Emission limit	Regulation
006	Brass Casting/Pouring Line with Baghouse #6	PM	The lesser of 6.18 lb/hr or the allowable set by 3.59(P) ^{0.62}	Rule 335-3-404 Rule 335-3-1404 (Anti-PSD)
006	Brass Casting/Pouring Line with Baghouse #6	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for Brass Casting/Pouring Line with Baghouse #6

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-401, "Control of Particulate Emissions - Visible Emissions".	Rule 335-3-401
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-402(3), "Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions".	Rule 335-3-402
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-404, "Control of Particulate Emissions – Process Industries – General".	Rule 335-3-404
5. This source has an enforceable limit 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)
Emission Standards	
1. Particulate emissions from the stack associated with these units shall not exceed the lesser of the Anti-PSD limit of 6.18 lb/hr or the allowable as set by Rule 335-3-404(1).	Rule 335-3-404 Rule 335-3-1404 (Anti-PSD)
2. The hours of operation for the brass casting/pouring line shall not exceed 4,800 hours in any consecutive rolling 12-month period.	Rule 335-3-1404 (Anti-PSD)
3. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the 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.	Rule 335-3-402(3)
4. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions.	Rule 335-3-105
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-105
Emission Monitoring	
1. The permittee shall perform a visual check, once per day, of the baghouse stack associated with these units. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed and not corrected within 1 hour period, then a Method 9 must be performed within 4 hours of observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-1605(c)1.
2. The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
(a) Check hopper, fan, and cleaning cycle for proper operation.	
(b) Check all hoods and ducts.	
(c) Record any repairs or observed problems.	
3. The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
(a) Once per year, inspect baghouse structure, access doors, door seals, and bags.	
(b) Once per year, perform an internal inspection of the baghouse hoppers.	
(c) Record any repairs or observed problems.	
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-1605(c)2.
2. The facility shall maintain a record of monthly and 12-month rolling totals of hours of operation for these units.	Rule 335-3-1605(c)2.

Federally Enforceable Provisos	Regulations
3. The facility shall maintain a record of all Method 9 observations	Rule 335-3-1605(c)2.
performed to satisfy the monitoring requirements. This shall	40 CFR Part 64
include all problems observed, excursions, and corrective actions	
taken.	
4. If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action take will be documented in a logbook.	Rule 335-3-1605(c)2.
5. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.

Summary Page for Ten (10) Electric Furnaces and Seven (7) Ladle Heaters with Baghouse #7

Permitted Operating

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

Emission Point #	Description	Pollutant	Emission limit	Regulation
007	Ten (10) Electric Furnaces and Seven (7) Ladle Heaters with Baghouse #7	PM	The allowable set by 3.59(P) ^{0.62} 0.034 g/dscm (0.015 gr/dscf) or 95% control efficiency	Rule 335-3-404 40 CFR §63.11550(b)(1)
007	Ten (10) Electric Furnaces and Seven (7) Ladle Heaters with Baghouse #7	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for Ten (10) Electric Furnaces and Seven (7) Ladle Heaters with Baghouse #7

Fe	derally Enforceable Provisos	Regulations
Ap	plicability	
1.	These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603
2.	These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-401, "Control of Particulate Emissions - Visible Emissions".	Rule 335-3-401
3.	These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-402(3), "Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions".	Rule 335-3-402
4.	These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-404, "Control of Particulate Emissions – Process Industries – General".	Rule 335-3-404
5.	The furnaces are subject to the applicable requirements of 40 CFR Part 63, Subpart ZZZZZZ, "National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Aluminum, Copper, and Other Nonferrous Foundries".	Rule 335-3-1106(155) 40 CFR §63.11544(a)(3)
6.	The furnaces are subject to the applicable requirements of 40 CFR Part 63 Subpart A, "General Provisions".	Rule 335-3-1106(1) 40 CFR §63.11555
Er	nission Standards	
1.	Particulate emissions from the stack associated with these units shall not exceed the allowable as set by Rule 335-3-404(1).	Rule 335-3-404
2.	The facility must achieve a particulate matter (PM) control efficiency of at least 95.0 percent or emit no more than an outlet PM concentration of 0.034 gram per dry standard cubic meter (g/dscm) (0.015 grains per dry standard cubic feet (gr/dscf)).	40 CFR §63.11550(b)(1)
3.	When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the 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	Rule 335-3-402(3)

Fe	ederally Enforceable Provisos	Regulations
	by removal or destruction of air contaminants before discharge to the open air.	
4.	Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)
5.	The facility must cover or enclose each melting furnace that is equipped with a cover or enclosure during the melting operation to the extent practicable (e.g., except when access is needed; including, but not limited to charging, alloy addition, and tapping).	40 CFR §63.11550(a)(1)
6.	The facility must purchase only metal scrap that has been depleted (to the extent practicable) of other nonferrous foundry HAP in the materials charged to the melting furnace, except metal scrap that is purchased specifically for its HAP metal content for use in alloying or to meet specifications for the casting. This requirement does not apply to material that is not scrap (e.g., ingots, alloys, sows) or to materials that are not purchased (e.g., internal scrap, customer returns).	40 CFR §63.11550(a)(2)
7.	The facility must prepare and operate pursuant to a written management practices plan. The management practices plan must include the required management practices of §63.11550(a)(1) and (2) and may include any other management practices that are implemented at the facility to minimize emissions from melting furnaces. You must inform your appropriate employees of the management practices that they must follow. You may use your standard operating procedures as the management practices plan provided the standard operating procedures include the required management practices in §63.11550(a)(1) and (2).	40 CFR §63.11550(a)(3)
Co	ompliance and Performance Test Methods and Procedures	
1.	Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions.	Rule 335-3-105 40 CFR §63.11551(c)(1)(v)
2.	Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-105
Eı	nission Monitoring	
1.	The permittee shall perform a visual check, once per day, of the baghouse stack associated with these units. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed and not corrected within 1 hour period, then a Method 9 must be performed within 4 hours of observation. Maintenance	Rule 335-3-1605(c)1. 40 CFR §63.11552(b)(1)(i)

Fe	derally Enforceable Provisos	Regulations
	shall be performed as needed. Any repairs or observed problems shall be recorded.	
2.	The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Check hopper, fan, and cleaning cycle for proper operation.	
	(b) Check all hoods and ducts.	
	(c) Record any repairs or observed problems.	
3.	The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Once per year, inspect baghouse structure, access doors, door seals, and bags.	
	(b) Once per year, perform an internal inspection of the baghouse hoppers.	
	(c) Record any repairs or observed problems.	
Re	ecordkeeping and Reporting Requirements	
1.	All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-1605(c)2. 40 CFR §63.11553(d)
2.	The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.
3.	If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action take will be documented in a logbook.	Rule 335-3-1605(c)2.
4.	The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.
5.	The facility must keep the records specified in §63.11553(c)(1) through (5).	40 CFR §63.11553(c)
	40	

Federally Enforceable Provisos

Regulations

- 40 CFR §63.11553(e)
- 6. If a deviation occurs during a semiannual reporting period, you must submit a compliance report to your permitting authority according to the following requirements:
 - (a) The first reporting period covers the period beginning on the compliance date specified in §63.11545 and ending on June 30 or December 31, whichever date comes first after your compliance date. Each subsequent reporting period covers the semiannual period from January 1 through June 30 or from July 1 through December 31. Your compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date comes first after end of the semiannual reporting period.
 - (b) A compliance report must include the information §63.11553(e)(2)(i) through (iv).
 - (i) Company name and address
 - (ii) Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy and completeness of the content of the report.
 - (iii) Date of the report and beginning and ending dates of the reporting period.
 - (iv) Identification of the affected source, the pollutant being monitored, applicable requirement, description of deviation, and corrective action taken.

Summary Page for Five (5) Cutoff Saws, One (1) Wheelabrator Shotblast Machine, One (1) Sinto Drum Blast, One (1) Grinder, and One (1) Plasma Cutter with Baghouse #8 – Foundry 3

Permitted Operating

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

Emission Point #	Description	Pollutant	Emission limit	Regulation
008	Five (5) Cutoff Saws, One (1) Wheelabrator Shotblast Machine, One (1) Sinto Drum Blast, One (1) Grinder, and One (1) Plasma Cutter with Baghouse 8 – Foundry 3	PM	The allowable set by 3.59(P) ^{0.62}	Rule 335-3-404
008	Five (5) Cutoff Saws, One (1) Wheelabrator Shotblast Machine, One (1) Sinto Drum Blast, One (1) Grinder, and One (1) Plasma Cutter with Baghouse 8 – Foundry 3	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for Five (5) Cutoff Saws, One (1) Wheelabrator Shotblast Machine, One (1) Sinto Drum Blast, One (1) Grinder and One (1) Plasma Cutter with Baghouse #8 – Foundry 3

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-401, "Control of Particulate Emissions - Visible Emissions".	
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-402(3), "Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions".	Rule 335-3-402
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-404, "Control of Particulate Emissions – Process Industries – General".	
5. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR Part 64
Emission Standards	
1. Particulate emissions from the stack associated with these units shall not exceed the allowable as set by Rule 335-3-404(1).	Rule 335-3-404
2. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the 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.	Rule 335-3-402(3)
3. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions.	Rule 335-3-105
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-105
Emission Monitoring	
1. Compliance Assurance Monitoring shall be conducted. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR Part 64
2. The permittee shall perform a visual check, once per day, of the baghouse stack associated with these units. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed and not corrected within 1 hour period, then a Method 9 must be performed within 4 hours of observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-1605(c)1.
3. The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
(a) Check hopper, fan, and cleaning cycle for proper operation.	
(b) Check all hoods and ducts.	
(c) Record any repairs or observed problems.	
4. The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
(a) Once per year, inspect baghouse structure, access doors, door seals, and bags.	
(b) Once per year, perform an internal inspection of the baghouse hoppers.	
(c) Record any repairs or observed problems.	

Fe	derally Enforceable Provisos	Regulations
Re	ecordkeeping and Reporting Requirements	
1.	All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-1605(c)2.
2.	The facility shall maintain a record of monthly and 12-month rolling totals of hours of operation for these units.	Rule 335-3-1605(c)2.
3.	The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2. 40 CFR Part 64
4.	If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action take will be documented in a logbook.	Rule 335-3-1605(c)2.
5.	The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.
6.	The facility shall maintain a record of all differential pressure readings performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605 40 CFR Part 64

Summary Page for Muller Sand Handling System with Baghouse #9 - Foundry 3

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Point #	Description	Pollutant	Emission limit	Regulation
009	Muller Sand Handling System with Baghouse #9 – Foundry 3	PM	The allowable set by 3.59(P) ^{0.62}	Rule 335-3-404
009	Muller Sand Handling System with Baghouse #9 – Foundry 3	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for Muller Sand Handling System with Baghouse #9 – Foundry 3

Federa	lly Enforceable Provisos	Regulations
Applica	bility	
	s source is subject to the applicable requirements of ADEM nin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603
Adn	s source is subject to the applicable requirements of ADEM nin. Code r. 335-3-401, "Control of Particulate Emissions - ble Emissions".	Rule 335-3-401
Adn	s source is subject to the applicable requirements of ADEM nin. Code r. 335-3-402(3), "Control of Particulate Emissions – itive Dust and Fugitive Emissions".	Rule 335-3-402
Adn	s source is subject to the applicable requirements of ADEM nin. Code r. 335-3-404, "Control of Particulate Emissions – eess Industries – General".	Rule 335-3-404
bein .04,	s source has an enforceable limit in order to prevent it from ag subject to the provisions of ADEM Admin. Code r. 335-3-14-"Air Permits Authorizing Construction in Clean Air Areas vention of Significant Deterioration]".	Rule 335-3-1404 (Anti-PSD)
appl	particulate matter emissions, this source is subject to the licable requirements of 40 CFR Part 64, "Compliance Assurance itoring".	40 CFR Part 64
Emissi	on Standards	
	iculate emissions from the stack associated with this unit shall exceed the allowable as set by Rule 335-3-404(1).	Rule 335-3-404
	hours of operation for this unit shall not exceed 6,000 hours in consecutive rolling 12-month period.	Rule 335-3-1404 (Anti-PSD)
com man or re in v clos or ga by r	en dust, fumes, gases, mist, odorous matter, vapors, or any bination thereof escape the building or equipment in such a aner and amount as to cause a nuisance or to violate any rule egulation, the Director may order that the building or equipment which processing, handling, and storage are done be tightly ed and ventilated in such a way that all air and gases and air as-borne material leaving the building or equipment are treated emoval or destruction of air contaminants before discharge to open air.	Rule 335-3-402(3)

Fe	derally Enforceable Provisos	Regulations
4.	Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)
Co	mpliance and Performance Test Methods and Procedures	
1.	Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions.	Rule 335-3-105
2.	Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-105
En	nission Monitoring	
1.	Compliance Assurance Monitoring shall be conducted. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR Part 64
2.	The permittee shall perform a visual check, once per day, of the associated baghouse with this unit. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed and not corrected within 1 hour period, then a Method 9 must be performed within 4 hours of observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-1605(c)1.
3.	The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Check hopper, fan, and cleaning cycle for proper operation.	
	(b) Check all hoods and ducts.	
	(c) Record any repairs or observed problems.	
4.	The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Once per year, inspect baghouse structure, access doors, door seals, and bags.	
	(b) Once per year, perform an internal inspection of the baghouse hoppers.	
	(c) Record any repairs or observed problems.	

Fe	derally Enforceable Provisos	Regulations
Re	ecordkeeping and Reporting Requirements	
1.	All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-1605(c)2.
2.	The facility shall maintain a record of monthly and 12-month rolling totals of hours of operation for this unit.	Rule 335-3-1605(c)2.
3.	The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2. 40 CFR Part 64
4.	If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action take will be documented in a logbook.	Rule 335-3-1605(c)2.
5.	The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.
6.	The facility shall maintain a record of all differential pressure readings performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2. 40 CFR Part 64

Summary Page for South End Cleaning Room with Baghouse #11

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Point #	Description	Pollutant	Emission limit	Regulation
011	South End Cleaning Room with Baghouse #11	PM	The allowable set by 3.59(P) ^{0.62}	Rule 335-3-404
011	South End Cleaning Room with Baghouse #11	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for South End Cleaning Room with Baghouse #11

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-401, "Control of Particulate Emissions - Visible Emissions".	Rule 335-3-401
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-402(3), "Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions".	Rule 335-3-402
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-404, "Control of Particulate Emissions – Process Industries – General".	Rule 335-3-404
Emission Standards	
1. Particulate emissions from the stack associated with these units shall not exceed the allowable as set by Rule 335-3-404(1).	Rule 335-3-404
2. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the 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.	Rule 335-3-402(3)
3. Visible emissions from these sources shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions.	Rule 335-3-105
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-105
59	

	derally Enforceable Provisos	Regulations
Er	nission Monitoring	
1.	The permittee shall perform a visual check, once per day, of the baghouse stack associated with these units. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed and not corrected within 1 hour period, then a Method 9 must be performed within 4 hours of observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-1605(c)1.
2.	The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Check hopper, fan, and cleaning cycle for proper operation.	
	(b) Check all hoods and ducts.	
	(c) Record any repairs or observed problems.	
3.	The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Once per year, inspect baghouse structure, access doors, door seals, and bags	
	(b) Once per year, perform an internal inspection of the baghouse hoppers.	
	(c) Record any repairs or observed problems.	
Re	ecordkeeping and Reporting Requirements	
1.	All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-1605(c)2.
2.	The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.
3.	If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action take will be documented in a logbook.	Rule 335-3-1605(c)2.

Federally Enforceable Provisos	Regulations
4. The facility shall maintain a record of all weekly and annual	Rule 335-3-1605(c)2.
baghouse inspections to satisfy the requirements of periodic	
monitoring. This shall include all problems observed, excursions,	
and corrective actions taken.	

Summary Page for North End Cleaning Room with Baghouse #12

Permitted Operating Schedule:

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

Emission Point #	Description	Pollutant	Emission limit	Regulation
012	North End Cleaning Room with Baghouse #12	PM	The allowable set by 3.59(P) ^{0.62}	Rule 335-3-404
012	North End Cleaning Room with Baghouse #12	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for North End Cleaning Room with Baghouse #12

Federally Enforceable Provisos	Regulations	
Applicability		
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603	
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-401, "Control of Particulate Emissions - Visible Emissions".	Rule 335-3-401	
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-402(3), "Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions".	Rule 335-3-402	
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-404, "Control of Particulate Emissions – Process Industries – General".	Rule 335-3-404	
5. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR Part 64	
Emission Standards		
1. Particulate emissions from the stack associated with these units shall not exceed the allowable as set by Rule 335-3-404(1).	Rule 335-3-404	
2. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the 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.	Rule 335-3-402(3)	
3. Visible emissions from these sources shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)	
Compliance and Performance Test Methods and Procedures		
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions.	Rule 335-3-105	

Fe	derally Enforceable Provisos	Regulations
2.	Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-105
Er	nission Monitoring	
1.	Compliance Assurance Monitoring shall be conducted. Reference the Appendix for the monitoring requirements for 40 CFR Part 64, "Compliance Assurance Monitoring".	40 CFR Part 64
2.	The permittee shall perform a visual check, once per day, of the baghouse stack associated with these units. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed and not corrected within 1 hour period, then a Method 9 must be performed within 4 hours of observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-1605(c)1.
3.	The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Check hopper, fan, and cleaning cycle for proper operation.	
	(b) Check all hoods and ducts.	
	(c) Record any repairs or observed problems.	
4.	The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Once per year, inspect baghouse structure, access doors, door seals, and bags.	
	(b) Once per year, perform an internal inspection of the baghouse hoppers.	
	(c) Record any repairs or observed problems.	
Re	cordkeeping and Reporting Requirements	
1.	All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-1605(c)2.
2.	The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.

Federally Enforceable Provisos	Regulations
3. If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action take will be documented in a logbook.	` ,
4. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.
5. The facility shall maintain a record of all differential pressure readings performed to satisfy the requirements of Compliance Assurance Monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2. 40 CFR Part 64

Summary Page for Three (3) Wheelabrator Shotblast Machines and One (1) BCT Drumblast with Baghouses #13, #14, #15, and #16

Permitted Operating

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

Emission Point #	Description	Pollutant	Emission limit	Regulation
013	Wheelabrator Shotblast Machine with Baghouse #13	PM	The allowable set by 3.59(P) ^{0.62}	Rule 335-3-404
013	Wheelabrator Shotblast Machine with Baghouse #13	Opacity	(see general proviso 29)	Rule 335-3-401(1)
014	Wheelabrator Shotblast Machine with Baghouse #14	PM	The allowable set by 3.59(P) ^{0.62}	Rule 335-3-404
014	Wheelabrator Shotblast Machine with Baghouse #14	Opacity	(see general proviso 29)	Rule 335-3-401(1)
015	BCT Drumblast with Baghouse #15	PM	The allowable set by 3.59(P) ^{0.62}	Rule 335-3-404
015	BCT Drumblast with Baghouse #15	Opacity	(see general proviso 29)	Rule 335-3-401(1)
016	Wheelabrator Shotblast Machine with Baghouse #16	PM	The allowable set by 3.59(P) ^{0.62}	Rule 335-3-404
016	Wheelabrator Shotblast Machine with Baghouse #16	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for Three (3) Wheelabrator Shotblast Machines and One (1) BCT Drumblast with Baghouses #13, #14, #15, and #16

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-401, "Control of Particulate Emissions - Visible Emissions".	Rule 335-3-401
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-402(3), "Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions".	Rule 335-3-402
4. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-404, "Control of Particulate Emissions – Process Industries – General".	Rule 335-3-404
Emission Standards	
1. Particulate emissions from the stacks associated with these units shall not exceed the allowable as set by Rule 335-3-404(1).	Rule 335-3-404
2. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the 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.	Rule 335-3-402(3)
3. Visible emissions from these sources shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions.	Rule 335-3-105
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-105

	derally Enforceable Provisos	Regulations
Er	nission Monitoring	
1.	The permittee shall perform a visual check, once per day, of the baghouse stacks associated with these units. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed and not corrected within 1 hour period, then a Method 9 must be performed within 4 hours of observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-1605(c)1.
2.	The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Check hopper, fan, and cleaning cycle for proper operation.	
	(b) Check all hoods and ducts.	
	(c) Record any repairs or observed problems.	
3.	The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
	(a) Once per year, inspect baghouse structure, access doors, door seals, and bags.	
	(b) Once per year, perform an internal inspection of the baghouse hoppers.	
	(c) Record any repairs or observed problems.	
Re	cordkeeping and Reporting Requirements	
1.	All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-1605(c)2.
2.	The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.
3.	If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605(c)2.

Federally Enforceable Provisos	Regulations
4. The facility shall maintain a record of all weekly and annual	Rule 335-3-1605(c)2.
baghouse inspections to satisfy the requirements of periodic	
monitoring. This shall include all problems observed, excursions,	
and corrective actions taken.	

Summary Page for Core Oven - Core Room

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Point #	Description	Pollutant	Emission limit	Regulation
017	Core Oven – Core Room	PM	The allowable set by 3.59(P) ^{0.62}	Rule 335-3-404
017	Core Oven – Core Room	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for Core Oven - Core Room

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-401, "Control of Particulate Emissions - Visible Emissions".	Rule 335-3-401
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-402(3), "Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions".	Rule 335-3-402
4. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-404, "Control of Particulate Emissions – Process Industries – General".	Rule 335-3-404
Emission Standards	
1. Particulate emissions from the stack associated with this unit shall not exceed the allowable as set by Rule 335-3-404(1).	Rule 335-3-404
2. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the 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.	Rule 335-3-402(3)
3. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions.	Rule 335-3-105
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-105

Federally Enforceable Provisos		Regulations
Eı	nission Monitoring	
1.	The permittee shall perform a visual check, once per day, of the baghouse stack associated with this unit. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed and not corrected within 1 hour period, then a Method 9 must be performed within 4 hours of observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-1605(c)1.
Re	ecordkeeping and Reporting Requirements	
1.	All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-1605(c)2.
2.	The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.
3.	If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605(c)2.

Summary Page for Compact Attrition Reclamation System with Baghouse #18 – Foundry 3

Permitted Operating

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
018	Compact Attrition Reclamation System with Baghouse #18 – Foundry 3	PM	The lesser of 3.4 lb/hr or the allowable set by 3.59(P) ^{0.62}	Rule 335-3-404 Rule 335-3-1404 (Anti-PSD)
018	Compact Attrition Reclamation System with Baghouse #18 – Foundry 3	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for Compact Attrition Reclamation System with Baghouse #18 – Foundry 3

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	Rule 335-3-1603
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-401, "Control of Particulate Emissions - Visible Emissions".	Rule 335-3-401
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-402(3), "Control of Particulate Emissions – Fugitive Dust and Fugitive Emissions".	Rule 335-3-402
4. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-404, "Control of Particulate Emissions – Process Industries – General".	Rule 335-3-404
5. This source has 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 emissions from the stack associated with this unit shall not exceed the lesser of the Anti-PSD limit of 3.4 lb/hr out of the baghouse stack or the allowable as set by Rule 335-3-404(1).	Rule 335-3-404 Rule 335-3-1404 (Anti-PSD)
2. When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape the building or equipment in such a manner and amount as to cause a nuisance or to violate any rule or regulation, the Director may order that the 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.	Rule 335-3-402(3)
3. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-401(1)

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions.	Rule 335-3-105
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of the opacity of the stack emissions.	Rule 335-3-105
Emission Monitoring	
1. The permittee shall perform a visual check, once per day, of the baghouse stack associated with this unit. The check shall be performed by a person familiar with Method 9. If estimated instantaneous visible emissions in excess of 10% opacity are observed and not corrected within 1 hour period, then a Method 9 must be performed within 4 hours of observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-1605(c)1.
2. The permittee shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
(a) Check hopper, fan, and cleaning cycle for proper operation.	
(b) Check all hoods and ducts.	
(c) Record any repairs or observed problems.	
3. The permittee shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed:	Rule 335-3-1605(c)1.
(a) Once per year, inspect baghouse structure, access doors, door seals, and bags.	
(b) Once per year, perform an internal inspection of the baghouse hoppers.	
(c) Record any repairs or observed problems.	
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-1605(c)2.
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall	Rule 335-3-1605(c)2.

Fe	derally Enforceable Provisos	Regulations
	include all problems observed, excursions, and corrective actions taken.	
3.	If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a logbook.	Rule 335-3-1605(c)2.
4.	The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.

Summary Page for Foundry 2 Backup Generator & Foundry 3 Backup Generator

Permitted Operating

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

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
019	Foundry 2 Backup Generator & Foundry 3 Backup Generator	Opacity	(see general proviso 29)	Rule 335-3-401(1)

Provisos for Foundry 2 Backup Generator and Foundry 3 Backup Generator

Federally Enforceable Provisos	Regulations
Applicability	
1. The emergency generators are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits".	
2. The emergency generators are subject to the applicable requirements of ADEM Admin. Code r. 335-3-401, "Control of Particulate Matter Emissions - Visible Emissions".	
3. The emergency generators are subject to the applicable requirements specified in 40 CFR Part 63, Subpart ZZZZ, "National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines".	
4. The emergency generators are subject to the applicable requirements specified in 40 CFR Part 63, Subpart A, "General Provisions" as specified in Table 8 to Subpart ZZZZ.	
Emission Standards	
1. The emergency generators shall comply with the following opacity standards:	Rule 335-3-401(1)&(2)
(a) Except for one 6-minute period during any 60-minute period, the engines shall not discharge into the atmosphere particulate that results in an opacity greater than 20%, as determined by a 6-minute average.	
(b) At no time shall the engines discharge into the atmosphere particulate that results in an opacity greater than 40%, as determined by a 6-minute average.	
2. The facility must comply with the requirements in Table 2d and the operating limitations in Table 2b of 40 CFR Part 63 Subpart ZZZZ.	40 CFR §63.6603
3. The engines shall meet the following requirements, except during the periods of startup:	40 CFR §63.6603(a) Subpart ZZZZ, Table 2d
(a) Change oil and filter every 500 hours of operation or annually, whichever comes first;	

Federally Enforceable Provisos	Regulations
(b) Inspect air cleaner every 1,000 hours of operation or annually whichever comes first, and replace as necessary; and	
(c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
4. The facility must use diesel fuel that meets the requirements in 40 CFR §1090.305 for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1 2015, may be used until depleted.	
5. At all times the facility must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the facility to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	
6. The facility must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to 40 CFF Part 63, Subpart ZZZZ.	
7. The engines shall comply with the following work or management practices:	40 CFR §63.6640(a) Subpart ZZZZ, Table 6
 (a) Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or 	
(b) Develop and follow the facility's own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	
9. The facility must operate the emergency stationary RICE according to the requirements of §63.6640(f)(1) through (2) and (4). In order for the engines to be considered an emergency stationary RICE under 40 CFR Part 63 Subpart ZZZZ, any operation other than	& (4)

Federally Enforceable Provisos	Regulations
emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year is prohibited.	
(a) There is no time limit on the use of emergency stationary RICE in emergency situations.	
(b) You may operate your emergency stationary RICE for any combination of the purposes specified in §63.6640(f)(2)(i) through (iii) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by §63.6640(f)(3) counts as part of the 100 hours per calendar year allowed.	
(c) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in §63.6640(f)(2). The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.	
Compliance and Performance Test Methods and Procedures	
1. If testing is required, Method 5 of 40 CFR Part 60, Appendix A, shall be used in the determination of particulate matter (PM).	Rule 335-3-105
2. If testing is required, Method 6 or 6A or 6C of 40 CFR Part 60, Appendix A, shall be used in the determination of sulfur dioxide (SO ₂).	Rule 335-3-105
3. If testing is required, Method 7E of 40 CFR Part 60, Appendix A, shall be used in the determination of nitrogen oxide (NO_X).	Rule 335-3-105
4. If testing is required, Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-105
5. If testing is required, Method 10 of 40 CFR Part 60, Appendix A, shall be used in the determination of carbon monoxide (CO).	Rule 335-3-105

Federally Enforceable Provisos	Regulations
6. If testing is required, Method 25A of 40 CFR Part 60, Appendix A, shall be used in the determination of total hydrocarbons (THC).	Rule 335-3-105
7. If testing is required, Method 320 or 323 of 40 CFR Part 63, Appendix A, shall be used in the determination of formaldehyde.	Rule 335-3-105
Emission Monitoring	
1. Provided that visible emissions, in excess of the opacity standards, are observed from the engines at any time that the units are operating, a visible emission observation shall be conducted.	Rule 335-3-401(2) Rule 335-3-1605(c)(1)(i)
2. The facility must install a non-resettable hour meter if one is not already installed on each engine.	40 CFR §63.6625(f)
Recordkeeping and Reporting	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-1605(c)2. 40 CFR §63.6660(a)-(c)
2. If a visible emission observation is required using the 40 CFR Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and the corrective action taken will be documented in a logbook.	Rule 335-3-1605(c)2.
3. The facility shall maintain a record of all Method 9 observations performed to satisfy monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-1605(c)2.
4. The facility shall keep records of the maintenance conducted on the engines in order to demonstrate that they operated and maintained the stationary RICE and after-treatment control device (if any) according to the maintenance plan.	Rule 335-3-1605(c)2. 40 CFR §63.6655(e)
5. The facility shall keep records of the hours of operation of the engines that is recorded through the non-resettable hour meter. The facility must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in §63.6640(f)(2)(ii) or (iii) or §63.6640(f)(ii), the facility must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.	Rule 335-3-1605(c)2. 40 CFR §63.6655(f)(2)

APPENDIX CAM

Compliance Assurance Monitoring Requirements

Compliance Assurance Monitoring (CAM) Plan for Emission Point (EP) 005 with Baghouse #5 (Muller Sand Handling System – Foundry 1)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Pressure Drop
Measurement Approach	Visual emissions will be observed daily.	A reading of the magnehelic gauge to determine pressure drop will be performed and recorded once per day.
II. Indicator Range	Visible emissions shall be < 10%. An excursion exists when any visual check results in instantaneous visible emissions greater than 10% opacity. If visible emissions	Pressure drop should be maintained at $1 \le P \le 10$ inches of water. An excursion is any value less than 1 and greater than 10 inches of water.
	in excess of 10% opacity are noted, and are not corrected within a period of 1 hour, a Method 9 must be performed (for at least twelve minutes) within 4 hours of the initial check.	
III. Performance Criteria		
A. Data Representativeness	Measurement are being made at the emission point.	Measurements are being made at the baghouse inlet and outlet.
	(Baghouse Exhaust)	
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The observer will be a Method 9 trained observed certified every 6 months.	Zero check magnehelics once a week. A weekly blow back purge of magnehelic lines.
D. Monitoring Frequency	Visual checks shall be performed at least once per day.	The pressure drop will be monitored at least daily.
Data Collection Procedures	A visible emissions assessment of the baghouse stack and/or a Method 9 will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
Averaging Period	Visual Check: Instantaneous	Instantaneous
	Method 9: 6-Minute Average	

Compliance Assurance Monitoring (CAM) Plan for Emission Point (EP) 008 with Baghouse #8 (Five Cutoff Saws and Shotblasts – Foundry 3)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Pressure Drop
Measurement Approach	Visual emissions will be observed daily.	A reading of the magnehelic gauge to determine pressure drop will be performed and recorded once per day.
II. Indicator Range	Visible emissions shall be < 10%. An excursion exists when any visual check results in instantaneous visible emissions greater than 10% opacity. If visible emissions in excess of 10% opacity are noted, and are not corrected within a period of 1 hour, a Method 9 must be performed (for at least twelve minutes) within 4 hours of the initial check.	Pressure drop should be maintained at $1 \le P \le 5$ inches of water. An excursion is any value less than 1 and greater than 5 inches of water.
III. Performance Criteria A. Data Representativeness	Measurement are being made at the emission point. (Baghouse Exhaust)	Measurements are being made at the baghouse inlet and outlet.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The observer will be a Method 9 trained observed certified every 6 months.	Zero check magnehelics once a week. A weekly blow back purge of magnehelic lines.
D. Monitoring Frequency	Visual checks shall be performed at least once per day.	The pressure drop will be monitored at least daily.
Data Collection Procedures	A visible emissions assessment of the baghouse stack and/or a Method 9 will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
Averaging Period	Visual Check: Instantaneous	Instantaneous
	Method 9: 6-Minute Average	

Compliance Assurance Monitoring (CAM) Plan for Emission Point (EP) 009 with Baghouse #9 (Casting Cleaning & Muller Sand Handling System – Foundry 3)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Pressure Drop
Measurement Approach	Visual emissions will be observed daily.	A reading of the magnehelic gauge to determine pressure drop will be performed and recorded once per day.
II. Indicator Range	Visible emissions shall be < 10%. An excursion exists when any visual check results in instantaneous visible emissions greater than 10% opacity. If visible emissions in excess of 10% opacity are noted, and are not corrected within a period of 1 hour, a Method 9 must be performed (for at least twelve minutes) within 4 hours of the initial check.	Pressure drop should be maintained at $1 \le P \le 10$ inches of water. An excursion is any value less than 1 and greater than 10 inches of water.
III. Performance Criteria A. Data Representativeness	Measurement are being made at the emission point. (Baghouse Exhaust)	Measurements are being made at the baghouse inlet and outlet.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The observer will be a Method 9 trained observed certified every 6 months.	Zero check magnehelics once a week. A weekly blow back purge of magnehelic lines.
D. Monitoring Frequency	Visual checks shall be performed at least once per day. A visible emissions assessment of the baghouse	The pressure drop will be monitored at least daily. The pressure differential will be recorded with the time,
Data Collection Procedures	stack and/or a Method 9 will be recorded with the time, date, and name of the observer.	date, and name of the observer.
Averaging Period	Visual Check: Instantaneous Method 9: 6-Minute Average	Instantaneous
	interior of thinate riverage	<u>L</u>

Compliance Assurance Monitoring (CAM) Plan for Emission Point (EP) 012 with Baghouse #12 (North End Cleaning Room)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Pressure Drop
Measurement Approach	Visual emissions will be observed daily.	A reading of the magnehelic gauge to determine pressure drop will be performed and recorded once per day.
II. Indicator Range	Visible emissions shall be < 10%. An excursion exists when any visual check results in	Pressure drop should be maintained at $1 \le P \le 5$ inches of water. An excursion is any value
	instantaneous visible emissions greater than 10% opacity. If visible emissions in excess of 10% opacity are noted, and are not corrected within a period of 1 hour, a Method 9 must be performed (for at least twelve minutes) within 4 hours of the initial check.	less than 1 and greater than 5 inches of water.
III. Performance Criteria A. Data Representativeness	Measurement are being made at the emission point. (Baghouse Exhaust)	Measurements are being made at the baghouse inlet and outlet.
B. Verification of Operation Status	N/A	N/A
C. QA/QC Practices and Criteria	The observer will be a Method 9 trained observed certified every 6 months.	Zero check magnehelics once a week. A weekly blow back purge of magnehelic lines.
D. Monitoring Frequency	Visual checks shall be performed at least once per day.	The pressure drop will be monitored at least daily.
Data Collection Procedures	A visible emissions assessment of the baghouse stack and/or a Method 9 will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
Averaging Period	Visual Check: Instantaneous	Instantaneous
	Method 9: 6-Minute Average	