

October 31, 2013

VIA FEDEX

Mr. David Lyle Read, PE
Office of Permitting and Compliance
Division of Air Resources Management – DEP
2600 Blair Stone Road, Mail Station 5505
Tallahassee, FL 32399-2400

Re: Second Amendment to PSD Revision Application

EnviroFocus Technologies – Tampa, Florida Permit ID: 0570057-030-AC (PSD-FL-404C)

Permit ID. 03/003/-030-AC (P3D-PL-40



to RAi

Dear Mr. Read:

On behalf of EnviroFocus Technologies, LLC (EFT), ENVIRON International Corporation (ENVIRON) is submitting the enclosed second amendment to EFT's permit application submitted to the Florida Department of DEP on April 19, 2013 and amended on July 18, 2013. As you are aware, the expansion of EFT's battery recycling facility in Tampa, Florida (authorized by Air Permit No. 0570057-020-AC, PSD-FL-404) is nearing completion and EFT is requesting changes to the permit to reflect minor adjustments to the design and operation of the facility that have or will have occurred prior to completion. A permit revision application was submitted in April 2013 to address the following changes to the facility's PSD permit:

- Revision of the NOx emission limits on the process and hygiene stacks
- Usage of alternate chemicals in the desulfurizing process and sulfur dioxide scrubber
- Identification of the burner rating in the furnace afterburner
- Revision of the process rate for the lead refining operations

Subsequently, an amendment to the application was submitted in July 2013 for the following:

- Adjustment of the revised NOx emission limits on the process and hygiene stacks
- Combining of the SO₂ emission limits on the process and hygiene stacks

In addition to these changes, the enclosed application amendment is being submitted to request approval for the following changes:

- Revision of the emergency generator size from 500 kW to 1000 kW
- Modification of the process description for the reverb furnace to adequately identify the use of coke breeze as a raw material
- Revision of the specifications on the process baghouses

Following is a description of each of these newly-proposed changes.

Emergency Generator Size Change

The original PSD permit application called for the installation of a 500kW diesel-fired emergency generator. The current PSD permit identifies the unit as ID No. 037. It has been determined that the generator needs to be larger to accommodate all of the processes that will need to be operated during a power outage. The new design specification is for a 1000 kW diesel-fired generator. The appropriately revised application forms have been included with this submittal.

Reverb Furnace Feed Description

An independent audit, performed at EFT's request, has suggested that the permitted "process description for the reverb (furnace) should include coke breeze as a reductant, consistent with industry practice, so the storage, handling and use of this material is transparent to regulators." For this purpose, please accept the addition of coke breeze usage in the description of the reverb furnace operation.

Process Baghouse Changes

EFT is planning to upgrade the process baghouses that serve the dryer and furnaces due to higher than anticipated corrosion rates. The baghouse fans and the process stack will not be altered, so there will be no change in the air flow or the impact of the emissions. Rather the baghouse modules themselves will be replaced and will contain a different size and quantity of bags. The new information for the baghouses has been provided in the enclosed application forms on pages 17, 40, and 64.

The NOx dispersion modeling has been revised to incorporate all changes to the NOx emission rates from the process, hygiene, and generator stacks. A report of the results of the revised modeling is enclosed.

Finally, due to unforeseeable delays in construction, EFT estimates that the expansion will not be completed and stack tested in time to apply for a Title V operating permit prior to the construction permit's current expiration date of December 31, 2014. EFT therefore requests that the expiration date be extended by one year to December 31, 2015.

If you have any questions, please don't hesitate to contact me at 828-254-0016.

Sincerely.

Frank J. Burbach, PE

Senior Manager

Enclosures: Revised Application Forms (2 copies)

Revised NOx Modeling Report (2 copies)

Copy: Angela Fogarty, EnviroFocus Technologies, LLC

Diana Lee, Hillsborough County EPC



Department of Environmental Protection ECEIVED

Division of Air Resource Management

NOV 01 2013

APPLICATION FOR AIR PERMIT - LONG FORM DIVISION OF AIR

I. APPLICATION INFORMATION

RESOURCE MANAGEMENT

Air Construction Permit – Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- To establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial, revised, or renewal Title V air operation permit.

To ensure accuracy, please see form instructions.

Identification of Facility

2. Site Name: EnviroFocus Technologies, LLC					
. Facility Identification Number: 0570057					
Facility Location 1901 N. 66 th Street					
Code: 33619					
ermitted Facility?					
No					
Code: 55121					
4. Application Contact E-mail Address: steve.yates@gopherresource.com					
Application Processing Information (DEP Use)					
applicable):					
f applicable):					

Purpose of Application

This application for air permit is being submitted to obtain: (Check one)
Air Construction Permit
X Air construction permit.
☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL). ☐ Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.
Air Operation Permit
☐ Initial Title V air operation permit.
Title V air operation permit revision.
Title V air operation permit renewal.
Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.
Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.
Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)
☐ Air construction permit and Title V permit revision, incorporating the proposed project.
Air construction permit and Title V permit renewal, incorporating the proposed project.
Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box: I hereby request that the department waive the processing time
requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

The purpose of this application is to revise the NOx emission limits on the process and hygiene stacks; to identify alternate chemical usage in desulfurization and scrubbing; to identify the burner capacity in the afterburner, to modify the process rate for refining, to combine the SO2 emission limits on the process and hygiene stacks, to revise the capacity of the emergency generator, and to identify the use of coke breeze in the reverb furnace feed.

Scope of Application

Scope of Application							
Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee				
030	Feed Dryer	ACIA	\$7500				
031	Reverb Furnace	ACIA	\$7500				
032	Blast Furnace	ACIA	\$7500				
033	Furnace Tapping, Charging, and Lead Refining (Hygiene)	ACIA	\$7500				
037	Emergency Generator	ACIA	\$7500				
9							

Application	Processing Fee	
Application	I I OCCSSIIIZ I CC	

Check one:	Х	Attached - Amount: \$_7500	Not Applicable

Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

1.	Owner/Authorized Representative Name : John Tapper, Chief Operating Officer				
2.	Owner/Authorized Representative Mailing Address Organization/Firm: EnviroFocus Technologies, LLC				
	Street Address: 6505 Jewel Avenue				
	City: Tampa State: Florida Zip Code: 33619				
3.	Owner/Authorized Representative Telephone Numbers				
	Telephone: (651) 405 - 2203 ext. Fax: (651) 454 - 7926				
4.	Owner/Authorized Representative E-mail Address: john.tapper@gopherresource.com				
5.	Owner/Authorized Representative Statement:				
	I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.				
	Signature Date				

DEP Form No. 62-210.900(1) – Form

Application Responsible Official Certification

Complete if applying for an initial, revised, or renewal Title V air operation permit or concurrent processing of an air construction permit and revised or renewal Title V air operation permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1.	Application Responsible Official Name: NA					
2.	Application Responsible Official Qualification (Check one or more of the following options, as applicable):					
	For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C.					
	For a partnership or sole proprietorship, a general partner or the proprietor, respectively.					
	For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.					
	☐ The designated representative at an Acid Rain source or CAIR source.					
3.	. Application Responsible Official Mailing Address					
	Organization/Firm:					
	Street Address:					
	City: State: Zip Code:					
4.	Application Responsible Official Telephone Numbers					
	Telephone: () ext. Fax: ()-					
5.	Application Responsible Official E-mail Address:					

DEP Form No. 62-210.900(1) – Form

- 6. Application Responsible Official Certification:
- I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.

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Professional Engineer Certification

<u> </u>	Orespional Bugineer Commentum				
1.	Professional Engineer Name: Frank Burbach				
	Registration Number:				
2.	Professional Engineer Mailing Address				
	Organization/Firm: ENVIRON International Corporation				
	Street Address: 1 Page Avenue				
	City: Asheville State: NC Zip Code: 28801				
3.	Professional Engineer Telephone Numbers				
	Telephone: (828) 254 - 0015 ext. Fax: (828) 254 - 0501				
4.	Professional Engineer E-mail Address: fburbach@environcorp.com				
5.	Professional Engineer Statement:				
	I, the undersigned, hereby certify, except as particularly noted herein*, that:				
	(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and				
	(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.				
	(3) If the purpose of this application is to obtain a Title V air operation permit (check here, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.				
	(4) If the purpose of this application is to obtain an air construction permit (check here \boxtimes , if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here \square , if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.				
	(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unitings been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit. Signature: 142683 Date				

* Attach any exception to certification statement.

DEP Form No. 62-210.900(1) – Form

Effective: 03/11/2010

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates Zone 17 East (km) 364.1		2. Facility Latitude/Longitude Latitude (DD/MM/SS)	
	North (km) 3093.7	Longitude (DD/MM/SS)	
3. Governmental Facility Code:	4. Facility Status Code:	5. Facility Major Group SIC Code:	6. Facility SIC(s):
0	A	33	3341

Facility Contact

1. Facility Contact Name:

Angela Fogarty

2. Facility Contact Mailing Address...

Organization/Firm: EnviroFocus Technologies, LLC

Street Address: 6505 Jewel Avenue

City: Tampa

3. Facility Contact Telephone Numbers:

Telephone: (813)744 - 5006 ext. Fax: (813)620 - 3505

4. Facility Contact E-mail Address: angela.fogarty@gopherresource.com

Facility Primary Responsible Official

Complete if an "application responsible official" is identified in Section I that is not the facility "primary responsible official."

State: Florida

Zip Code: **33619**

1. Facility Primary Responsible Official Name:

John Tapper

2. Facility Primary Responsible Official Mailing Address...

Organization/Firm: EnviroFocus Technologies, LLC

Street Address: 6505 Jewel Avenue

City: Tampa State: Florida Zip Code: 33619

3. Facility Primary Responsible Official Telephone Numbers...

Telephone: (651) 405 - 2203 ext. Fax: (651) 454 - 7926

4. Facility Primary Responsible Official E-mail Address:

john.tapper@gopherresource.com

Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a "major source" and a "synthetic minor source."

1. Small Business Stationary Source Unknown
2. Synthetic Non-Title V Source
3. X Title V Source
4. X Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)
5. Synthetic Minor Source of Air Pollutants, Other than HAPs
6. X Major Source of Hazardous Air Pollutants (HAPs)
7. Synthetic Minor Source of HAPs
8. X One or More Emissions Units Subject to NSPS (40 CFR Part 60)
9. One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)
10. X One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)
11. Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))
12. Facility Regulatory Classifications Comment:

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List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?	
PM	В	N	
PM10	В	N	
PM2.5	В	N	
voc	В	N	
NOX	A	N	
СО	A	Y	
SO2	A	Y	
РВ	В	N	
SAM	В	N	

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B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant Subject to Emissions Cap	2. Facility- Wide Cap [Y or N]? (all units)	3. Emissions Unit ID's Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
CO	Y	(-2 *** * **** *************************		912.1	ESCPSD
SO2	Y			891.5	ESCPSD
				·	-
					
		<u> </u>			
			-		

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

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Effective: 03/11/2010

C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: x Previously Submitted, Date: 7/2012
2.	Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: x Previously Submitted, Date: 9/2008
3.	Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: x Previously Submitted, Date: 12/2006
Ac	Iditional Requirements for Air Construction Permit Applications
1.	Area Map Showing Facility Location: Attached, Document ID: X Not Applicable (existing permitted facility)
2.	Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): X Attached, Document ID: See Text
3.	Rule Applicability Analysis: X Attached, Document ID: See Text
4.	List of Exempt Emissions Units: Attached, Document ID: X Not Applicable (no exempt units at facility)
5.	Fugitive Emissions Identification: Attached, Document ID: X Not Applicable
6.	Air Quality Analysis (Rule 62-212.400(7), F.A.C.): X Attached, Document ID: Not Applicable
7.	Source Impact Analysis (Rule 62-212.400(5), F.A.C.): X Attached, Document ID: Appendix B Not Applicable
	Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): Attached, Document ID: Not Applicable
	Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): Attached, Document ID: Not Applicable
10	. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): Not Applicable

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C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications

1.	List of Exempt Emissions Units:
	Attached, Document ID: Not Applicable (no exempt units at facility)
<u>A</u>	dditional Requirements for Title V Air Operation Permit Applications
1.	List of Insignificant Activities: (Required for initial/renewal applications only) Attached, Document ID: Not Applicable (revision application)
2.	Identification of Applicable Requirements: (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought) Attached, Document ID:
	Not Applicable (revision application with no change in applicable requirements)
3.	Compliance Report and Plan: (Required for all initial/revision/renewal applications) Attached, Document ID:
	Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.
4.	List of Equipment/Activities Regulated under Title VI: (If applicable, required for initial/renewal applications only) Attached, Document ID:
	Equipment/Activities Onsite but Not Required to be Individually Listed
	☐ Not Applicable
5.	Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only) Attached, Document ID: Not Applicable
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6.	Requested Changes to Current Title V Air Operation Permit: Attached, Document ID: Not Applicable

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C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program

1.	. Acid Rain Program Forms:	
	Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):	
	Attached, Document ID: Previously Submitted, Date:	
	☐ Not Applicable (not an Acid Rain source)	
	Phase II NO _X Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):	
	Attached, Document ID: Previously Submitted, Date:	
	☐ Not Applicable	
	New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):	
	Attached, Document ID: Previously Submitted, Date:	
	☐ Not Applicable	
2.	. CAIR Part (DEP Form No. 62-210.900(1)(b)):	
	Attached, Document ID: Previously Submitted, Date:	
	☐ Not Applicable (not a CAIR source)	
_ <u>A</u>	dditional Requirements Comment	_
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III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for an initial, revised or renewal Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for an air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application – Where this application is used to apply for both an air construction permit and a revised or renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes, and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

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Effective: 03/11/2010

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

or renewal Title V	or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)						
emissions unit. The emissions	 ☐ The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. ☐ The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. 						
unregulated emissions unit. Emissions Unit Description and Status							
	Unit Addressed in this	Section: (Check one)					
**	sions Unit Information S	,	ngle emissions unit a				
	or production unit, or ac		_				
_ •	which has at least one de						
of process or p	s Unit Information Section roduction units and active vent) but may also prod	vities which has at least	e emissions unit, a group one definable emission				
	s Unit Information Section reproduction units and a		e emissions unit, one or fugitive emissions only.				
2. Description of Em	issions Unit Addressed i	in this Section:					
	Feed	Dryer					
3. Emissions Unit Ide	entification Number: 03	0					
4. Emissions Unit Status Code: C	F. Emissions Unit Status Code: 5. Commence Construction Construction Date: Unknown Major Group						
8. Federal Program A	Applicability: (Check all	that apply)					
Acid Rain Uni	t						
CAIR Unit							
9. Package Unit:							
Manufacturer:		Model Number:					
10. Generator Namepl		·					
11. Emissions Unit Co The emissions from t blast furnace.	omment: This unit are ducted to t	he same stack as the r	everb furnace and				

DEP Form No. 62-210.900(1) – Form

Emissions Unit Control Equipment/Method:

1. Control Equipment/Method Description:

The emissions from the Feed Dryer are controlled by the dryer Baghouse and then combined with the emissions from the Reverb Furnace and Blast Furnace in the Process Stack.

Dryer Baghouse Specifications:

18,000 acfm 12,000 dscfm 225 deg. F 16% Moisture

3 Modules with 288 bags each = 864 bags total Filter Area = 864 bags x 18.65 sf/bag = 16,116 sq. ft. Gore on Gore material Shaker type cleaning system

2	C41	T\!	. 7.4.411	α - 1.	A 1 7
/	t .ontroi	Device	or Method	Code.	41 I /

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B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 40 ton/hr	
2.	Maximum Production Rate:	
3.	Maximum Heat Input Rate: 10 million Btu/hr	
4.	Maximum Incineration Rate: pounds/hr	
	tons/day	
5.	Requested Maximum Operating Schedule:	
	24 hours/day	7 days/week
	52 weeks/year	8760 hours/year
6.	Operating Capacity/Schedule Comment:	.•
		•
	•	

DEP Form No. 62-210.900(1) – Form

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1.	Identification of Point on Flow Diagram: Process S		2. Emission Point 7	Type Code:
3.	Descriptions of Emission NA	Points Comprising	g this Emissions Unit	for VE Tracking:
4.	ID Numbers or Descriptio 031 – Reverb Furnace	ns of Emission U	nits with this Emission	n Point in Common:
	032 – Blast Furnace			
5.	Discharge Type Code: V	6. Stack Height 130 feet	:	7. Exit Diameter: 5.0 feet
8.	Exit Temperature: 150 °F	9. Actual Volume 58,900 acfm	netric Flow Rate:	10. Water Vapor: 12 %
11.	Maximum Dry Standard F 45,000 dscfm	<u> </u>	12. Nonstack Emissi feet	
13.	Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point I Latitude (DD/M)	Latitude/Longitude
	North (km)	:	Lantide (DD/M) Longitude (DD/M)	•
	Emission Point Comments This stack combines the		the dryer (11,700 dsc	fm) and the furnaces
(33	3,350 dscfm).			

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 3

2. Source Classification Coc 30400419	le (SCC):	3. SCC Units Ton mate		charged
4. Maximum Hourly Rate: 40	5. Maximum 338,400	Annual Rate:	6.	Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum NA	% Ash:	9.	Million Btu per SCC Unit: NA
10. Segment Comment:				
10. Segment Comment:				
10. Segment Comment: Segment Description and R 1. Segment Description (Pro Natural Gas Combustion)	ocess/Fuel Type):			
Segment Description and R 1. Segment Description (Pro	ocess/Fuel Type): n			
Segment Description and R 1. Segment Description (Pro Natural Gas Combustion 2. Source Classification Cod	ncess/Fuel Type):	3. SCC Units		Estimated Annual Activity Factor: NA

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D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment 3 of 3

1. Segment Description (Propane Combustion	ocess/Fuel Type):		_	
2. Source Classification Co. 10201002	de (SCC):	3. SCC Units 1000 gall		
4. Maximum Hourly Rate: 0.109	5. Maximum 957	Annual Rate:		Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: 15 gr/100 cf	8. Maximum NA	% Ash:		Million Btu per SCC Unit: 91.5
10. Segment Comment:			<u> </u>	
Segment Description and R	ata: Segment			
Segment Description (Pro			_	
2. Source Classification Co.	de (SCC):	3. SCC Units	z·	
2. Source Classification Co.	uc (See).	3. See om.		
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:		Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. 1	Million Btu per SCC Unit:
10. Segment Comment:				

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

Zist of I officially Em			
1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM/PM10/PM2.5	017		EL
PB	017		EL
NOX			EL
CO			EL
SO2			EL
VOC			EL
			

POLLUTANT DETAIL INFORMATION
Page 1 of 12

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

2. Total Percent Efficiency of Control: 99.9		
tons/year	1	netically Limited? Yes x No
applicable):		
		7. Emissions Method Code: 0
8.b. Baseline	24-month	Period:
From:		Γο:
•		
3 yea	ars1	0 years
	otal PM e	missions from the
	applicable): 8.b. Baseline From: 9.b. Projected 5 yea	applicable): 8.b. Baseline 24-month From: T 9.b. Projected Monitorin 5 years 1

POLLUTANT DETAIL INFORMATION
Page 2 of 12

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Allowable Emissions: NA	
3.	Allowable Emissions and Units: 0.005 gr/dscf	4.	Equivalent Allowable 0.50 lb/hour	Emissions: 2.20 tons/year
5.	Method of Compliance: Stack Test			
6.	Allowable Emissions Comment (Description Proposed BACT limit.	of (Operating Method):	

Allowable Emissions Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: NA
3.	Allowable Emissions and Units: 0.03 gr/dscf	4. Equivalent Allowable Emissions: 3.01 lb/hour 13.18 tons/year
5.	Method of Compliance: Stack Test	
6.	Allowable Emissions Comment (Description 62-296.712 FAC	on of Operating Method):

Allowable Emissions __ of ___

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Descripti	ion of Operating Method):

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PB 2. Total Percent Effic 99.9		ent Efficie	ency of Control:
3. Potential Emissions:		-	etically Limited?
0.013 lb/hour 0.058	tons/year	Y	es x No
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):		
6. Emission Factor: 0.3 mg/dscm			7. Emissions
Reference: BACT			Method Code: 0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 2	24-month	Period:
tons/year	From:	Т	o:
9.a. Projected Actual Emissions (if required):	9.b. Projected	Monitori	ng Period:
tons/year	5 year	rs 🔲 1	0 years
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Comment:			
This accounts for the Feed Dryer's contribution to the total lead emissions from the			
Process Stack.			1

Effective: 03/11/2010

POLLUTANT DETAIL INFORMATION
Page 4 of 12

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Allowable Emissions: NA			
3.	Allowable Emissions and Units: 0.3 mg/dscm	4.	Equivalent Allowable Emissions: 0.013 lb/hour 0.058 tons/year			
5.	Method of Compliance: Stack Test					
6.	6. Allowable Emissions Comment (Description of Operating Method): Proposed BACT limit					
Al	lowable Emissions Allowable Emissions 2 or	f 2				
1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions: NA			
3.	Allowable Emissions and Units: 2 mg/dscm	4.	Equivalent Allowable Emissions: 0.088 lb/hour 0.386 tons/year			
5.	Method of Compliance: Stack Test					
6.	6. Allowable Emissions Comment (Description of Operating Method): NESHAP - 40 CFR 63 Subpart X					
Al	lowable Emissions Allowable Emissions	 of _	_			
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year			
5.	Method of Compliance:					
6.	6. Allowable Emissions Comment (Description of Operating Method):					

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POLLUTANT DETAIL INFORMATION
Page 5 of 12

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Totential, Estimated Fugitive, and Dasenne & Frojected Actual Emissions					
1. Pollutant Emitted: NOX	2. Total Percent Efficiency of Control:				
3. Potential Emissions: 2.10 lb/hour 9.20	4. Synthetically Limited? Tons/year Yes X No				
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):				
6. Emission Factor: 0.21 lb/mm Btu Reference: AP-42 Table 1.5-1 (BACT)	7. Emissions Method Code: 3				
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:				
tons/year	From: To:				
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:				
tons/year	5 years 10 years				
10. Calculation of Emissions:					
10. Calculation of Emissions: NOx = 0.21 lb/mmBtu x 10 mmBtu/hr = 2.10 lb/hr					
11. Potential, Fugitive, and Actual Emissions Comment: This accounts for the dryer's contribution to the total NOx emissions from the					
process stack.					

POLLUTANT DETAIL INFORMATION Page 6 of 12

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

THOWADIC Emissions 1 thowadic Emissions 1 o	* =				
Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA				
3. Allowable Emissions and Units: 42.2 lb/hr	4. Equivalent Allowable Emissions: 42.2 lb/hour 184.8 tons/year				
5. Method of Compliance: Continuous Emissions Monitoring System	n				
6. Allowable Emissions Comment (Description of Operating Method): Proposed BACT limit – Total Process Stack Limit of 42.2 lb/hr includes Feed Dryer, Reverb Furnace, Blast Furnace and Afterburner.					
Allowable Emissions Allowable Emissions	of				
Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year				
5. Method of Compliance:					
6. Allowable Emissions Comment (Description	of Operating Method):				
Allowable Emissions Allowable Emissions	of				
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year				
5. Method of Compliance:					
6. Allowable Emissions Comment (Description of Operating Method):					

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Page 7 of 12

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1 otential, Estimated I ugitive, and Dasenne e	e i l'ojecteu lictuul Emis				
1. Pollutant Emitted:	2. Total Percent Efficient	ency of Control:			
СО		_			
3. Potential Emissions:	l <u>-</u> ,	netically Limited?			
0.084 lb/hour 3.68	stons/year	ics A No			
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):				
6. Emission Factor: 0.084 lb/mm Btu		7. Emissions Method Code:			
Reference: AP-42 Table 1.4-2		3			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:			
tons/year	From:	Го:			
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:			
tons/year	5 years 1	0 years			
10. Calculation of Emissions:					
11. Potential, Fugitive, and Actual Emissions Comment:					
This accounts for the dryer's contribution to the total CO emissions from the process					
stack.					

Allowable Emissions Allowable Emissions __ of __

POLLUTANT DETAIL INFORMATION Page 8 of 12

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

1.	Basis for Allowable Emissions Code: ESCPSD	Future Effective Date of Allowable Emissions: NA				
3.	Allowable Emissions and Units: 204.7 lb/hr	4. Equivalent Allowable Emissions: 204.7 lb/hour 896.5 tons/year				
<u> </u>		204.7 10/110th 890.3 tolls/year				
3.	Method of Compliance: Continuous Emissions Monitoring System	1				
	6. Allowable Emissions Comment (Description of Operating Method): This limit applies to the combined emissions from the Feed Dryer, Reverb Furnace, and Blast Furnace.					
<u>A</u> l	lowable Emissions Allowable Emissions	of				
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:				
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year				
5.	Method of Compliance:					
	Allowable Emissions Comment (Description lowable Emissions Allowable Emissions					
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:				
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year				
5.	Method of Compliance:					
6.	Allowable Emissions Comment (Description	of Operating Method):				

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: SO2	2. Total Perc	ent Efficie	ency of Control:	
3. Potential Emissions: 0.17 lb/hour 0.72	2 tons/year		netically Limited? Yes x No	
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 0.0165 lb/mm Btu Reference: AP-42 Table 1.5-1			7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:	
tons/year	From:	ī	Го:	
9.a. Projected Actual Emissions (if required): tons/year			_	
process stack.			1	

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Allowable Emissions Allowable Emissions

POLLUTANT DETAIL INFORMATION Page 10 of 12

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

of

					
Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions: NA				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:				
202.24 lb/hr	202.24 lb/hour 885.8 tons/year				
5. Method of Compliance:					
Continuous Emissions Monitoring Sys	tem				
6. Allowable Emissions Comment (Descrip					
	limit applies to the combined emissions from				
the Feed Dryer, Reverb Furnace, Blast Fu	rnace, and Refining Kettles.				
Allowable Emissions Allowable Emissions	of				
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable				
	Emissions:				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:				
	lb/hour tons/year				
5. Method of Compliance:					
6. Allowable Emissions Comment (Descrip	tion of Operating Method):				
di America Emissionis Comment (Sessin)	o. Anowable Emissions Comment (Description of Operating Method).				
Allowable Emissions Allowable Emissions					
Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable				
1. Basis for Allowable Emissions Code:	Emissions:				
2 Allered 1 Decision and 11 '4					
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year				
5 14 1 50 1	10/110di tolis/ year				
5. Method of Compliance:					
6. Allowable Emissions Comment (Description of Operating Method):					

POLLUTANT DETAIL INFORMATION
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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted:	2. Total Percent Effici			
VOC				
3. Potential Emissions:	j ,	hetically Limited?		
	tens/year	Yes x No		
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 0.0055 lb/mm Btu		7. Emissions		
Reference: AP-42, Table 1.4-2		Method Code: 3		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:		
tons/year	From:	To:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitor	ing Period:		
tons/year	5 years	10 years		
10. Calculation of Emissions:				
11. Potential, Fugitive, and Actual Emissions Comment:				
This accounts for the dryer's contribution to the total VOC emissions from the				
process stack.				

POLLUTANT DETAIL INFORMATION
Page 12 of 12

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions	s of
Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	
Allowable Emissions Allowable Emissions	s of
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Descrip	otion of Operating Method):
Allowable Emissions Allowable Emissions	s of
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Descrip	otion of Operating Method):

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Vi	<u>Visible Emissions Limitation:</u> Visible Emissions Limitation of						
1.	Visible Emissions Subtype:		2. Basis for Allowable	e Opacity:			
	VE03		x Rule	☐ Other			
3.	Allowable Opacity: 3%	-					
	Normal Conditions:	% E	Exceptional Conditions:	%			
	Maximum Period of Excess Op	pacity Allov	wed:	min/hour			
4.	Method of Compliance: EPA	Reference	Method 9				
<u> </u>	VI 11 5						
5.	Visible Emissions Comment:						
	Rule 62-296.603, FAC						
	Ruic 02-270.003, FAC						
<u>Vi</u>	sible Emissions Limitation: V	isible Emis	sions Limitation of				
	sible Emissions Limitation: V Visible Emissions Subtype:	isible Emis	sions Limitation of 2. Basis for Allowable				
	-	isible Emis					
	-	isible Emis	2. Basis for Allowable	e Opacity:			
1.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions:	% E	2. Basis for Allowable Rule Exceptional Conditions:	e Opacity: Other			
1.	Visible Emissions Subtype: Allowable Opacity:	% E	2. Basis for Allowable Rule Exceptional Conditions:	e Opacity: Other			
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions:	% E	2. Basis for Allowable Rule Exceptional Conditions:	e Opacity: Other			
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Op	% E	2. Basis for Allowable Rule Exceptional Conditions:	e Opacity: Other			
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Op Method of Compliance:	% E	2. Basis for Allowable Rule Exceptional Conditions:	e Opacity: Other			
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Op	% E	2. Basis for Allowable Rule Exceptional Conditions:	e Opacity: Other			
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Op Method of Compliance:	% E	2. Basis for Allowable Rule Exceptional Conditions:	e Opacity: Other			
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Op Method of Compliance:	% E	2. Basis for Allowable Rule Exceptional Conditions:	e Opacity: Other			
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Op Method of Compliance:	% E	2. Basis for Allowable Rule Exceptional Conditions:	e Opacity: Other			
3.	Visible Emissions Subtype: Allowable Opacity: Normal Conditions: Maximum Period of Excess Op Method of Compliance:	% E	2. Basis for Allowable Rule Exceptional Conditions:	e Opacity: Other			

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H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 2

	~ 1		D 11 ()	
1	rameter Code:	2.	Pollutant(s):	
E	M		NOX, CO,	802
3. CN	MS Requirement:		Rule	X Other
	onitor Information			
1	Manufacturer: TBD			
M	Model Number: TBD		Serial N	umber:
5. Ins	stallation Date:	6.	Performance	e Specification Test Date:
Up	oon Construction	ł	NA	
7. Co	ontinuous Monitor Comment:			
Pre	oposed NOX, CO, and SO2 CEMS on o	coml	bined proces	s stack.
ļ				
Contin	nuous Monitoring System: Continuous	Mon	itor <u>2</u> of <u>2</u>	
1. Pai	rameter Code:		2. Pollutan	t(s):
Ba	ag Leak Detection		PM & 1	PB
3. CN	MS Requirement:		Rule	Other
4. Mo	onitor Information			
	Manufacturer: TBD			
M	Model Number: TBD		Serial No	umber:
5. Ins	stallation Date:		6. Perform	ance Specification Test Date:
U	pon Construction		NA	
7. Co	ontinuous Monitor Comment:			
Bag	g Leak Detection required on Dryer Ba	gho	use per 40 C	FR 63 Subpart X.
				•
[

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID:
2.	Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date
3.	Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: x Previously Submitted, Date 8/2008
4.	Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date
	x Not Applicable (construction application)
5.	Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: x Previously Submitted, Date 12/2006 Not Applicable
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date: Test Date(s)/Pollutant(s) Tested:
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7.	Other Information Required by Rule or Statute: Attached, Document ID: X Not Applicable

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I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

		(Rules 62-212.400(10) and 62-212.500(7),
) CFR 63.43(d) and (e)):	
Attach	ned, Document ID:	X Not Applicable
		Analysis (Rules 62-212.400(4)(d) and 62-
)(f), F.A.C.):	
Attach	ned, Document ID:	X Not Applicable
3. Descriptio only)	n of Stack Sampling Facilities:	(Required for proposed new stack sampling facilities
Attach	ned, Document ID:	X Not Applicable
Additional R	equirements for Title V Air O	peration Permit Applications
	ication of Applicable Requirement, Document ID:	ents:
	liance Assurance Monitoring: ned, Document ID:	☐ Not Applicable
	ative Methods of Operation: ned, Document ID:	☐ Not Applicable
4. Alterna	ative Modes of Operation (Emis	sions Trading):
Attach	ned, Document ID:	☐ Not Applicable
Additional R	equirements Comment	
}		
}		

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A. GENERAL EMISSIONS UNIT INFORMATION

<u>Title V Air Operation Permit Emissions Unit Classification</u>

or renev	Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)							
emis	 The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. 							
L		ription and Status						
1. Type of	Emissions	s Unit Addressed in this	Section: (Check one)	-				
sing	le process	sions Unit Information S or production unit, or a which has at least one d	ctivity, which produces	one or more air				
of p	ocess or p		vities which has at least	e emissions unit, a group one definable emission				
_		s Unit Information Section production units and a	_	e emissions unit, one or fugitive emissions only.				
2. Desc	ription of	Emissions Unit Addres	sed in this Section:					
		Rev	verb Furnace					
3. Emissio	ns Unit Id	entification Number: 03	31					
	4. Emissions Unit Status Code: 5. Commence 6. Initial Startup 7. Emissions Unit Date: 7/2009 Major Group							
8. Federal	Program A	Applicability: (Check al	l that apply)	· · · · · · · · · · · · · · · · · · ·				
Acid	l Rain Uni	it						
CAI	R Unit							
9. Package								
Manufa			Model Number:					
		late Rating: MW						
11. Emissio	ns Unit Co	omment:		!				
The em Blast Furn		om this unit are ducted	to the same stack as t	he Feed Dryer and				

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EMISSIONS UNIT INFORMATION

Section 2 of 5

Emissions Unit Control Equipment/Method:

1. Control Equipment/Method Description:

The emissions from the Reverb Furnace are combined with the gases from the Blast Furnace in an Afterburner. The gases from the Afterburner are subsequently passed through a baghouse for PM and lead control, then through a wet scrubber for sulfur dioxide control.

Process Baghouse Specifications:

54,000 acfm 33,350 dscfm 350 deg. F 6% Moisture

6 Modules with 288 bags each = 1,728 bags total Filter Area = 1,728 bags x 18.65 sf/bag = 32,227 sq. ft. Gore on Gore material Shaker type cleaning system

Sulfur Dioxide Scrubber Specifications:

Inlet Air Flow = 54,000 acfm at 350 deg. F, 6% moisture
Outlet Air Flow = 42,800 acfm at 125 deg. F, 11% moisture
Blowdown = 101 gal/min
Make-up = 113 gal/min
Alkaline Reagent Usage = as needed to comply with the SO2 limit.

Afterburner Capacity: 10 mmBtu/hr

2. Control Device or Method Code: 112/016/130

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B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 40 ton/hr	
2.	Maximum Production Rate:	
3.	Maximum Heat Input Rate: 23.0 million Btu/hr	_
4.	Maximum Incineration Rate: pounds/hr	
	tons/day	
5.	Requested Maximum Operating Schedule:	
	24 hours/day	7 days/week
	52 weeks/year	8760 hours/year
6.	Operating Capacity/Schedule Comment:	

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C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1.	Identification of Point on Plot Plan or Flow Diagram: Process Stack		2. Emission Point	Type Code:			
3.	Descriptions of Emission NA	Points Comprising	g this Emissions Unit	for VE Tracking:			
4.	ID Numbers or Descriptio 030 Feed Dryer 032 Blast Furniture	ns of Emission Ur	nits with this Emissio	n Point in Common:			
5.	Discharge Type Code: V	6. Stack Height 130 feet	:	7. Exit Diameter: 5.0 feet			
8.	Exit Temperature: 150% °F	9. Actual Volum 58,900 acfm	metric Flow Rate: 10. Water Vapor: 12 %				
11	. Maximum Dry Standard F 45,000 dscfm	low Rate:	12. Nonstack Emission Point Height: feet				
13	Emission Point UTM Coo Zone: East (km):	rdinates	14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)				
	North (km)	:	Longitude (DD/MM/SS)				
15. Emission Point Comment: This stack combines gases from the Feed Dryer (11,700 scfm) and the furnaces (33,300 scfm). The Reverb Furnace contributes approx. 16,650 scfm (50%) of the furnace gases.							

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type):

	Reverb Furnace					
:						
			·			
2.	Source Classification Cod 30400402	e (St	CC):	3. SCC Units: Tons mate		charged
4.	Maximum Hourly Rate: 40	5.	Maximum 262,800	Annual Rate:		Estimated Annual Activity Factor: NA
7.	Maximum % Sulfur:	8.	Maximum '	% Ash:	9.	Million Btu per SCC Unit: NA
10.	Segment Comment:	<u> </u>			<u> </u>	
Se	gment Description and Ra	ite:	Segment 2 c	of <u>3</u>		
1.	2 1		/Fuel Type):			
	Natural Gas Combustio	n				
2.	Source Classification Cod	e (S	CC):	3. SCC Units:		
	10200602		. 	MMCF		
4.	Maximum Hourly Rate: 0.023	5.	Maximum . 201.5	Annual Rate:	6.	Estimated Annual Activity Factor: NA
7.	Maximum % Sulfur: NA	8.	Maximum NA	% Ash:	9.	Million Btu per SCC Unit: 1000
10	. Segment Comment:				·	-
				•		

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D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment 3 of 3

1.	1. Segment Description (Process/Fuel Type): Propane Combustion							
2.	Source Classification Code 10201002	e (SCC):	3. SCC Units: 1000 gallor					
4.	Maximum Hourly Rate: 0.251	5. Maximum 2,200	Annual Rate:	6.	Estimated Annual Activity Factor: NA			
7.	Maximum % Sulfur: 15 gr/100 cf	8. Maximum NA	% Ash:	9.	Million Btu per SCC Unit: 91.5			
10.	Segment Comment:							
Se	gment Description and Ra	te: Segment	of					
	Segment Description (Prod							
					·			
			1					
2.	Source Classification Code	e (SCC):	3. SCC Units:					
4.	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity Factor:			
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:			
10.	Segment Comment:			·				

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM/PM10/PM2.5	016		EL
PB	016		EL
NOX			EL
СО	112		EL
SO2	130		EL
VOC	112		EL

POLLUTANT DETAIL INFORMATION Page 1 of 12

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM/PM10/PM2.5	2. Total Percent Efficiency of Control: 99.9		
3. Potential Emissions: 0.71 lb/hour 3.13	tons/year	•	netically Limited? Yes x No
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):		
6. Emission Factor: 0.005 gr/dscf Reference: BACT			7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 2	24-month	Period:
tons/year	From:	Т	co:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected 5 year		ng Period: 0 years
10. Calculation of Emissions: 11. Potential, Fugitive, and Actual Emissions C			
This accounts for the Reverb Furnace's of the Process Stack.	contribution to	the total	PM emissions from

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 3

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Allowable Emissions: NA			
3.	Allowable Emissions and Units: 0.005 gr/dscf	4.	Equivalent Allowable Emissions: 0.71 lb/hour 3.13 tons/year			
5.	5. Method of Compliance: Stack Test and Bag Leak Detection System					
6.	Allowable Emissions Comment (Description Proposed BACT limit	of	Operating Method):			

Allowable Emissions 2 of 3

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date Emissions: NA	e of Allowable
3.	Allowable Emissions and Units: 0.022 gr/dscf	4.	Equivalent Allowable 3.14 lb/hour	e Emissions: 13.75 tons/year
5.	Method of Compliance: Stack Test and Bag Leak Detection System	n		
6.	Allowable Emissions Comment (Description 40 CFR 60 Subpart L	of	Operating Method):	

Allowable Emissions 3 of 3

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date Emissions: NA	e of Allowable
3.	Allowable Emissions and Units: 0.03 gr/dscf	4.	Equivalent Allowable 4.28 lb/hour	e Emissions: 18.75 tons/year
5. Method of Compliance: Stack Test and Bag Leak Detection System				
6.	Allowable Emissions Comment (Description 62-296.712 FAC	of	Operating Method):	

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1 otential, Estimated 1 agitive, and Dasenne e			
1. Pollutant Emitted:	2. Total Perc	ent Efficie	ency of Control:
PB	99.9		
3. Potential Emissions: 0.019 lb/hour 0.082	2 tons/year	•	netically Limited? Yes x No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
6. Emission Factor: 0.3 mg/dscm Reference: BACT			7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:
tons/year	From:		Γο:
9.a. Projected Actual Emissions (if required):	9.b. Projected	Monitori	ng Period:
tons/year	5 yea		0 years
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Comment: This accounts for the Reverb Furnace's contribution to the total lead emissions from the Process Stack.			

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 3

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Allowable Emissions: NA	
3.	Allowable Emissions and Units: 0.3 mg/dscm	4.	Equivalent Allowable Emissions: 0.019 lb/hour 0.082 tons/year	
5.	5. Method of Compliance: Stack Test and Bag Leak Detection System			
6.	Allowable Emissions Comment (Description Proposed BACT limit	of (Operating Method):	

Allowable Emissions 2 of 3

			
Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: NA		
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		
2mg/dscm	0.125 lb/hour 0.55 tons/year		
5. Method of Compliance: Stack Test and Bag Leak Detection System			
6. Allowable Emissions Comment (Description of Operating Method): NESHAP – 40 CFR 63 Subpart X			
• •			

Allowable Emissions Allowable Emissions 3 of 3

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date Emissions: NA	e of Allowable
3.	Allowable Emissions and Units: 0.010 gr/dscf (23 mg/dscm)	4.	Equivalent Allowable 1.43 lb/hour	e Emissions: 6.25 tons/year
5.	Method of Compliance: Stack Test and Bag Leak Detection System	m		
6.	Allowable Emissions Comment (Description 62-296.603 FAC	of (Operating Method):	

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Totential, Estimated Tugitive, and Daschile o				
Pollutant Emitted: NOX	2. Total Percent Efficiency of Control:			
3. Potential Emissions: 32.00 lb/hour 140.16	4. Synthetically Limited? tons/year Yes x No			
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 0.80 lb/ton of feed Reference: BACT	7. Emissions Method Code: 0			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:			
tons/year	From: To:			
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: 5 years 10 years			
10. Calculation of Emissions:				
10. Calculation of Emissions: NOx = 40 ton/hr x 0.80 lb/ton = 32.00 lb/hr				
11. Potential, Fugitive, and Actual Emissions Comment: This accounts for the Reverb Furnace's contribution to the total NOx emissions form the Process Stack.				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA			
3. Allowable Emissions and Units: 42.2 lb/hr	4. Equivalent Allowable Emissions: 42.2 lb/hour 184.8 tons/year			
5. Method of Compliance: Continuous Emissions Monitoring Syst	em			
6. Allowable Emissions Comment (Description of Operating Method): Proposed BACT limit – Total Process Stack Limit of 42.2 lb/hr includes Feed Dryer, Reverb Furnace, Blast Furnace, and Afterburner.				
Allowable Emissions Allowable Emissions	_ of			
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:			
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year			
5. Method of Compliance:6. Allowable Emissions Comment (Description of Operating Method):				
Allowable Emissions Allowable Emissions	of			
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:			
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year			
5. Method of Compliance:				
6. Allowable Emissions Comment (Description of Operating Method):				

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted:					
CO	2. Total Percent Efficient	ency of Control:			
3. Potential Emissions:	4. Syntl	netically Limited?			
	tons/year Y	•			
5. Range of Estimated Fugitive Emissions (as to tons/year					
6. Emission Factor: 0.084 lb/mm/Btu		7. Emissions Method Code:			
Reference: AP-42, Table 1.4-2	01 70 11 04 1				
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month				
tons/year		Γο: 			
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:			
tons/year		0 years			
This accounts for the Reverb Furnace's contribution to the total CO emissions from the Process Stack.					

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: ESCPSD	2.	Future Effective Date of Allowable Emissions: NA		
3.	Allowable Emissions and Units: 204.7 lb/hr	4.	Equivalent Allowable Emissions: 204.7 lb/hour 896.5 tons/year		
5.	Method of Compliance: Continuous Emissions Monitoring System	1			
	6. Allowable Emissions Comment (Description of Operating Method): This limit applies to the combined emissions from the Feed Dryer, Reverb Furnace, and Blast Furnace.				
<u>Al</u>	lowable Emissions Allowable Emissions	of_	_		
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year		
5.	5. Method of Compliance:				
	6. Allowable Emissions Comment (Description of Operating Method):				
_	lowable Emissions Allowable Emissions	T .	Future Effective Date of Allowable		
1.	Basis for Allowable Emissions Code:	2.	Emissions:		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:				
6.	6. Allowable Emissions Comment (Description of Operating Method):				

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1 Otential, Estimated Fugitive, and Dasenne e	1 Tojected Tetual Emissions			
1. Pollutant Emitted:	2. Total Percent Efficiency of Control:			
SO2	96 (desulfurization & scrubber)			
3. Potential Emissions: 128.0 lb/hour 560.6	4. Synthetically Limited? Stons/year Yes X No			
	tons/year			
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):			
6. Emission Factor: 80 lb/ton	7. Emissions Method Code:			
Reference: EPA Factor Information Retrieva	al System (FIRE) 3			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:			
tons/year	From: To:			
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:			
tons/year	☐ 5 years ☐ 10 years			
10. Calculation of Emissions:				
11. Potential, Fugitive, and Actual Emissions Comment:				
This accounts for the Reverb Furnace's contribution to the total SO2 emissions from				
the Process Stack.				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: ESCPSD	2.	Future Effective Date of Allowable Emissions: NA		
3.	Allowable Emissions and Units: 202.24 lb/hr	4.	Equivalent Allowable Emissions: 202.24 lb/hour 885.8 tons/year		
5.	Method of Compliance: Continuous Emissions Monitoring System	1			
6. Allowable Emissions Comment (Description of Operating Method): PSD Avoidance Limit - This emission limit applies to the combined emissions from the Feed Dryer, Reverb Furnace, Blast Furnace, and Refining Kettles.					
Al	lowable Emissions Allowable Emissions	of_	_		
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:	•			
6.	Allowable Emissions Comment (Description	of	Operating Method):		
Al	lowable Emissions Allowable Emissions	of_	<u></u>		
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year		
5.	Method of Compliance:				
6.	Allowable Emissions Comment (Description	of	Operating Method):		

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Totentiai, Estimated Tugitive, and Dasenne e	t Hojetteu Actual	Lillissions	
1. Pollutant Emitted:	2. Total Percent	Efficiency of C	Control:
VOC	80	·	
3. Potential Emissions: 1.67 lb/hour 7.31	tons/year 4.	Synthetically Yes x	Limited? No
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):		
6. Emission Factor: 20 ppmv @ 4% CO2 Reference: NESHAP - 40 CFR 63 Subpart X		7. Em Mer 0	issions thod Code:
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-r	nonth Period:	
tons/year	From:	To:	
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Mo	onitoring Period	d:
11. Potential, Fugitive, and Actual Emissions C This accounts for the Reverb Furnace's of from the Process Stack.		total VOC en	nissions

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

	The vice of this blond I		
1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions: NA
3.	Allowable Emissions and Units: 20 ppmv@ 4% CO2	4.	Equivalent Allowable Emissions: 1.67 lb/hour 7.31 tons/year
5.	Method of Compliance: Stack Test and Afterburner Temperature	e Mo	onitoring
6.	Allowable Emissions Comment (Description NESHAP – 40 CFR 63 Subpart X	of (Operating Method):
Al	lowable Emissions Allowable Emissions	of_	<u>.</u>
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:		
6.	Allowable Emissions Comment (Description	of (Operating Method):
Al	lowable Emissions Allowable Emissions	of_	
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year
5.	Method of Compliance:		
6.	Allowable Emissions Comment (Description	of (Operating Method):

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G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1.	Visible Emissions Subtype: VE03	2. Basis for Allowable \[\nbbar \] Rule	Opacity: Other
2	Allowable Opacity: 3%		_
ا.	• •	cceptional Conditions:	%
	Maximum Period of Excess Opacity Allow		min/hour
<u> </u>	<u></u>		
4.	Method of Compliance: EPA Reference M	lethod 9	
5	Visible Emissions Comment:		
ا ا	Visible Emissions Comment.		
	Rule 62-296.603, FAC		
	Ruic 02-270.003, FAC		
<u> </u>			
Vis	sible Emissions Limitation: Visible Emissi	ons Limitation 2 of 2	
1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE20	X Rule	Other
3.	Allowable Opacity:		
	• •	cceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe		min/hour
<u> </u>	Method of Compliance: EPA Reference M		
	Wethod of Comphance. El A Reference W	icinou y	
5.	Visible Emissions Comment:		
	40 CFR 60 Subpart L		
	. –		

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H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 3

1.	Parameter Code:	2.	Pollutant(s):
	EM		NOX, CO, & SO2
3.	CMS Requirement:		Rule X Other
4.	Monitor Information		
	Manufacturer: TBD		
	Model Number: TBD		Serial Number:
5.		6.	Performance Specification Test Date:
	Upon Construction		NA
7.	Continuous Monitor Comment:		
	Proposed NOX, CO, & SO2 CEMS on co	mbii	ned process stack
			
<u>Co</u>	ontinuous Monitoring System: Continuous	Mon	itor <u>2</u> of <u>3</u>
1.	Parameter Code:		2. Pollutant(s):
	Bag Leak Detection		PM & PB
3.	CMS Requirement:	Х	Rule Other
4.	Monitor Information		
	Manufacturer: TBD		
	Model Number: TBD		Serial Number:
5.	Installation Date:		6. Performance Specification Test Date:
	Upon Construction		NA
7.	Continuous Monitor Comment:		
	Bag Leak Detection required on Furnace	Bagl	ouse per 40 CFR 63 Subpart X.

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H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 3 of 3

1. Parameter Code:	2. Pollutant(s):
TEMP	CO & VOC
3. CMS Requirement:	x Rule Other
4. Monitor Information	
Manufacturer: TBD	
Model Number: TBD	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
	NA
7. Continuous Monitor Comment:	
A \$4 14	ad has 40 CED 62 Submont V
Afterburner temperature monitor require	ed by 40 CFR 65 Subpart A.
Continuous Monitoring System: Continuous	Monitor of
1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information	
Manufacturer:	·
Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date 8/2008
2.	Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date
3.	Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID x Previously Submitted, Date 8/2008
4.	Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date Not Applicable (construction application)
5.	Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: x Previously Submitted, Date 12/2006 Not Applicable
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:
:	Previously Submitted, Date: Test Date(s)/Pollutant(s) Tested:
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:
	X Not Applicable
	Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7.	Other Information Required by Rule or Statute: Attached, Document ID: X Not Applicable

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I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

1.		(Rules 62-212.400(10) and 62-212.500(7),
	F.A.C.; 40 CFR 63.43(d) and (e)):	
<u> </u>	X Attached, Document ID:	
2.		Analysis (Rules 62-212.400(4)(d) and 62-
	212.500(4)(f), F.A.C.):	Not Applicable
Ļ	Attached, Document ID:	
3.	Description of Stack Sampling Facilities: only)	(Required for proposed new stack sampling facilities
	Attached, Document ID:	X Not Applicable
<u>A</u>	lditional Requirements for Title V Air Or	peration Permit Applications
1.	Identification of Applicable Requireme	ents:
	Attached, Document ID:	
2.	Compliance Assurance Monitoring:	
	Attached, Document ID:	☐ Not Applicable
3.	Alternative Methods of Operation:	
	Attached, Document ID:	☐ Not Applicable
4.	Alternative Modes of Operation (Emiss	sions Trading):
	Attached, Document ID:	
<u>A</u>	Iditional Requirements Comment	
	·	
-		

DEP Form No. 62-210.900(1) – Form

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

tions Unit Information Section is a regulated ions Unit Information Section is an ion: (Check one) on addresses, as a single emissions unit, a ty, which produces one or more air able emission point (stack or vent). ddresses, as a single emissions unit, a group s which has at least one definable emission fugitive emissions. ddresses, as a single emissions unit, one or is the stable of the stable emissions unit, one or						
cion: (Check one) on addresses, as a single emissions unit, a ry, which produces one or more air able emission point (stack or vent). ddresses, as a single emissions unit, a group s which has at least one definable emission fugitive emissions. ddresses, as a single emissions unit, one or						
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by, which produces one or more air able emission point (stack or vent). ddresses, as a single emissions unit, a group s which has at least one definable emission fugitive emissions. ddresses, as a single emissions unit, one or						
fugitive emissions. ddresses, as a single emissions unit, one or						
, ,						
n this Section:						
Surnace						
-						
SIC Code: 33						
SIC Code: 33						
SIC Code: 33						
SIC Code: 33						
SIC Code: 33						
sic Code: 33						
Status Code: Construction Date: Unknown Major Group						

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Emissions Unit Control Equipment/Method:

1. Control Equipment/Method Description:

The emissions from the Blast Furnace are combined with the gases from the Reverb Furnace in an Afterburner. The gases from the afterburner are subsequently passed through a baghouse for PM and lead control, then through a wet scrubber for sulfur dioxide control.

Process Baghouse Specifications:

54,000 afcm 33,350 dscfm 350 deg. F 6% Moisture

6 Modules with 288 bags each = 1,728 bags total Filter Area = 1,728 bags x 18.65 sf/bag = 32,227 sq. ft. Gore on Gore material Shaker type cleaning system

Sulfur Dioxide Scrubber Specifications:

Inlet Air Flow = 54,000 acfm at 350 deg. F, 6% moisture
Outlet Air Flow = 42,800 acfm at 125 deg. F, 11% moisture
Blowdown = 101 gal/min
Make-up = 113 gal/min
Alkaline Reagent = as needed to maintain compliance with SO2 limit

Afterburner Capacity: 10 mmBtu/hr

2. Control Device or Method Code: 112/016/130

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B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 7.5 ton/hr				
2.	Maximum Production Rate:				
3.	Maximum Heat Input Rate: million Btu/hr				
4.	Maximum Incineration Rate: pounds/hr				
	tons/day				
5.	Requested Maximum Operating Schedule:				
	24 hours/day	7 days/week			
	52 weeks/year	8760 hours/year			
6.	Operating Capacity/Schedule Comment:				

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C. EMISSION POINT (STACK/VENT) INFORMATION (Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on		2. Emission Point	Гуре Code:
Flow Diagram: Process S			
3. Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:
NA			
4. ID Numbers or Descriptio	ns of Emission U	nits with this Emission	n Point in Common:
030 Feed Dryer			
031 Reverb Furnace			
S Di la Taranta	C C 171:1		a r : p:
5. Discharge Type Code: V	6. Stack Height	i :	7. Exit Diameter: 5.0 feet
		, ' El . D .	
8. Exit Temperature:		metric Flow Rate:	10. Water Vapor: 12 %
150 °F	58,900 acfm		
11. Maximum Dry Standard F 45,000 dscfm	Tow Rate:	12. Nonstack Emissi feet	ion Point Height:
13. Emission Point UTM Coo	rdinates		Latitude/Longitude
Zone: East (km):		Latitude (DD/M)	M/SS)
North (km)):	Longitude (DD/I	MM/SS)
15. Emission Point Comment	<u> </u>		
This stack combines gase		• • • • • • • • • • • • • • • • • • • •	
(33,300 scfm). The Reverb 1	Furnace contribu	ites approx 11,650 s	scfm (50%) of the
furnace gases.			

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

2	Source Classification Cod	e (Si	<u></u>	3. SCC Units	. -	
	30400403	U (U	CC).	Tons mate		charged
4.	Maximum Hourly Rate: 7.5	5.	Maximum <i>a</i> 65,700	Annual Rate:	6.	Estimated Annual Activity Factor: NA
7.	Maximum % Sulfur: NA	8.	Maximum (% Ash:	9.	Million Btu per SCC Unit
10.	Segment Comment:					
10.	· ·					
Seg	ement Description and Ra					
Seg						
Seg	ement Description and Ra					
Seg	ement Description and Ra					
Seg	ement Description and Ra					
Seg 1.	gment Description and Ra Segment Description (Prod	cess	Fuel Type):	·		
Seg 1.	ement Description and Ra	cess	Fuel Type):		:	
<u>Seg</u> 1.	gment Description and Ra Segment Description (Prod	e (S	(Fuel Type):	·		Estimated Annual Activity Factor:

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E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM/PM10/PM2.5	016		EL
PB	016		EL
NOX			EL
CO	112		EL
SO2	130		EL
VOC	112		EL

POLLUTANT DETAIL INFORMATION Page 1 of 12

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM/PM10/PM2.5	2. Total Percent Efficiency of Control: 99.9					
3. Potential Emissions: 0.71 lb/hour 3.13	4. Synthetical Yes	lly Limited? x No				
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year						
6. Emission Factor: 0.005 gr/dscf Reference: BACT		Emissions Method Code: 0				
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Perio	od:				
tons/year	From: To:					
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: 5 years 10 years					
10. Calculation of Emissions: 11. Potential, Fugitive, and Actual Emissions Control This accounts for the Blast Furnace's control Process Stack.		ssions from the				

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 3

1.	Basis for Allowable Emissions Code: OTHER	Future Effective Date of Allowable Emissions: NA
3.	Allowable Emissions and Units: 0.005 gr/dscf	4. Equivalent Allowable Emissions: 0.71 lb/hour 3.13 tons/year
5.	Method of Compliance: Stack Test and Bag Leak Detection Syste	m
6.	Allowable Emissions Comment (Description Proposed BACT limit	of Operating Method):

Allowable Emissions 2 of 3

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date Emissions:	of Allowable
3.	Allowable Emissions and Units: 0.022 gr/dscf	4.	Equivalent Allowable 3.14 lb/hour	Emissions: 13.75 tons/year
5.	Method of Compliance: Stack Test and Bag Leak Detection System			
6.	Allowable Emissions Comment (Description 62-296.712 FAC	of (Operating Method):	

Allowable Emissions 3 of 3

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions:	
3.	Allowable Emissions and Units: 0.03 gr/dscf	4.	Equivalent Allowabl 4.28 lb/hour	e Emissions: 18.75 tons/year
5.	. Method of Compliance: Stack Test and Bag Leak Detection System			
6.	Allowable Emissions Comment (Description 62-296.712 FAC	of	Operating Method):	

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POLLUTANT DETAIL INFORMATION
Page 3 of 12

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PB	2. Total Percent Efficiency of Control: 99.9		
3. Potential Emissions: 0.019 lb/hour 0.083	tons/year	_	netically Limited? Yes x No
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):		
6. Emission Factor: 0.3 mg/dscm Reference: BACT			7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:
tons/year	From:	Т	Го:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected 5 year	•	ng Period: 0 years
10. Calculation of Emissions: 11. Potential, Fugitive, and Actual Emissions Calculation of Emission	omment:		
This accounts for the Blast Furnace's couthe Process Stack.		ne total le:	ad emissions from

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 3

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Allowable Emissions: NA		
3.	Allowable Emissions and Units: 0.3 mg/dscm	4.	Equivalent Allowable Emissions: 0.019 lb/hour 0.083 tons/ye		
5.	Method of Compliance: Stack Test and Bag Leak Detection System	m			
6.	Allowable Emissions Comment (Description Proposed BACT limit	of (Operating Method):		

Allowable Emissions 2 of 3

		_			
1.	Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: NA		e of Allowable	
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		e Emissions:	
	2 mg/dscm		0.13 lb/hour	0.55 tons/year	
5.	Method of Compliance:				
	Stack Test and Bag Leak Detection System				
6.	6. Allowable Emissions Comment (Description of Operating Method):				
	NESHAP – 40 CFR 63 Subpart X				
	•				

Allowable Emissions Allowable Emissions 3 of 3

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date Emissions: NA	of Allowable
3.	Allowable Emissions and Units: 0.010 gr/dscf (23 mg/dscm)	4.	Equivalent Allowable 1.43 lb/hour	Emissions: 6.25 tons/year
5.	Method of Compliance: Stack Test and Bag Leak Detection System	m		
6.	Allowable Emissions Comment (Description 62-296.603 FAC	of (Operating Method):	

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

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POLLUTANT DETAIL INFORMATION Page 6 of 12

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA
3. Allowable Emissions and Units: 42.2 lb/hr	4. Equivalent Allowable Emissions: 42.2 lb/hour 184.8 tons/year
5. Method of Compliance: Continuous Emissions Monitoring System	m
6. Allowable Emissions Comment (Description Proposed BACT limit – Total Process State Reverb Furnace, Blast Furnace, and Afterburges)	ck Limit of 42.2 lb/hr includes Feed Dryer,
Allowable Emissions Allowable Emissions	of
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Descriptio Allowable Emissions Allowable Emissions	
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
1. Basis for Allowable Emissions Code.	Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Descriptio	n of Operating Method):

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Pollutant Emitted: CO	2. Total Percent Efficient	ency of Control:	
3. Potential Emissions: 203.7 lb/hour 892.2	,	netically Limited? 'es x No	
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
6. Emission Factor: 48 lb/ton Reference: E.F. based on test of similar source	ee	7. Emissions Method Code: 5	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:	
tons/year		Γο:	
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitori 5 years 1	ng Period: 0 years	
10. Calculation of Emissions: 11. Potential, Fugitive, and Actual Emissions Co	omment:		
This accounts for the Blast Furnace's contribution to the total CO emissions from the Process Stack.			

Effective: 03/11/2010

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

	_ 				
Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions: NA				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:				
204.7 lb/hr	204.7 lb/hour 896.5 tons/year				
5. Method of Compliance:					
Continuous Emissions Monitoring System	m 				
6. Allowable Emissions Comment (Descriptio	n of Operating Method):				
This limit applies to the combined emissi	ons from the Feed Dryer, Reverb Furnace,				
and Blast Furnace.					
Allowable Emissions Allowable Emissions	of				
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable				
	Emissions:				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:				
	lb/hour tons/year				
5. Method of Compliance:					
3. Method of Comphance:					
6. Allowable Emissions Comment (Descriptio	n of Operating Method):				
` *	. ,				
L					
Allowable Emissions Allowable Emissions					
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable				
	Emissions:				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:				
	lb/hour tons/year				
5. Method of Compliance:	<u> </u>				
3. We mod of Compitance.					
6. Allowable Emissions Comment (Description of Operating Method):					
	- · · ·				
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POLLUTANT DETAIL INFORMATION Page 9 of 12

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: 96 (desulfurization & scrubber)		
3. Potential Emissions: 24.0 lb/hour 105.1	tons/year	. •	netically Limited? Yes
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
6. Emission Factor: 80 lb/ton Reference: EPA Factor Information Retrieva	al System (FIR	E)	7. Emissions Method Code: 3
	8.b. Baseline		L
8.a. Baseline Actual Emissions (if required): tons/year			
	From:		Го:
9.a. Projected Actual Emissions (if required):	9.b. Projected	d Monitori	ng Period:
tons/year		ars 🔲 1	0 years
11. Potential, Fugitive, and Actual Emissions C This accounts for the Blast Furnace's conthe Process Stack.		ne total SC)2 emissions from

POLLUTANT DETAIL INFORMATION Page 10 of 12

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

<u></u>	
Basis for Allowable Emissions Code: ESCPSD	2. Future Effective Date of Allowable Emissions: NA
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
163.9 lb/hr	163.9 lb/hour 717.9 tons/year
5. Method of Compliance: Continuous Emissions Monitoring System	1
6. Allowable Emissions Comment (Description	,
This emission limit applies to the combine	ed emissions from the Feed Dryer, Reverb
Furnace, and Blast Furnace.	
Allowable Emissions Allowable Emissions	
Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description	n of Operating Method):
Allowable Emissions Allowable Emissions	of
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	lb/hour tons/year
5. Method of Compliance:	<u> </u>
6. Allowable Emissions Comment (Description	n of Operating Method):

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Pollutant Emitted: VOC	2. Total Percent Efficiency of Control:			
3. Potential Emissions: 1.40 lb/hour 6.15	5 tons/year	•	netically Limited? Yes No	
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 20 ppmv @ 4% CO2 Reference: NESHAP – 40 CFR 63 Subpart X			7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:	
tons/year	From:		To:	
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected 5 year		•	
10. Calculation of Emissions: 11. Potential, Fugitive, and Actual Emissions Comment: This accounts for the Blast Furnace's contribution to the total VOC emissions from				
the Process Stack.				

POLLUTANT DETAIL INFORMATION Page 12 of 12

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

2 3.1	The waste Emissions I of	^ =		
1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Emissions: NA	Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable En	
	20 ppmv @ 4% CO2		1.40 lb/hour	6.15 tons/year
5.	Method of Compliance: Stack Test and Afterburner Temperature	e Mo	onitoring	
6.	Allowable Emissions Comment (Description NESHAP – 40 CFR 63 Subpart X	of	Operating Method):	
<u>Al</u>	lowable Emissions Allowable Emissions	of_	_	
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Emissions:	Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable En lb/hour	nissions: tons/year
5.	Method of Compliance:			
	Allowable Emissions Comment (Description In the Internal Comment) Description		Operating Method):	
	Basis for Allowable Emissions Code:	2.	Future Effective Date of Emissions:	Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowable En lb/hour	missions: tons/year
5.	Method of Compliance:	•		
6.	Allowable Emissions Comment (Description	of	Operating Method):	

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G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>1</u>

1.	Visible Emissions Subtype: VE03	2. Basis for Allowable	e Opacity: Other
3.	Allowable Opacity: 3%		
	· •	Exceptional Conditions:	%
	Maximum Period of Excess Opacity Allow		min/hour
_			
4.	Method of Compliance: EPA Reference N	Aethod 9	
	4. Visible Emissions Comment:		
	D 1 (0 00 (00 D) 0		
	Rule 62-296.603, FAC		
Vi	sible Emissions Limitation: Visible Emiss	sions Limitation of	_
1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	7,	Rule	Other
3	Allowable Opacity:		
]].	* *	Exceptional Conditions:	%
	Maximum Period of Excess Opacity Allow	-	min/hour
		veu.	
4.	Method of Compliance:		
5.	Visible Emissions Comment:		
٦.	Visible Emissions Comment.		
)			

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H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 3

1. Parameter Code: EM	2. Pollutant(s): NOX, CO, & SO2
3. CMS Requirement:	Rule X Other
4. Monitor Information Manufacturer: TBD	
Model Number: TBD	Serial Number:
5. Installation Date: Upon Construction	6. Performance Specification Test Date: NA
7. Continuous Monitor Comment: Proposed NOX, CO, and XO@ CEMS or	n combined process stack.
Continuous Monitoring System: Continuous	s Monitor 2 of 3
1. Parameter Code: Bag Leak Detection	2. Pollutant(s): PM & PB
3. CMS Requirement:	x Rule Other
Monitor Information Manufacturer: TBD Model Number: TBD	Serial Number:
5. Installation Date: Upon Construction	6. Performance Specification Test Date: NA
7. Continuous Monitor Comment: Bag Leak Detection required on Furnace	e Baghouse per 40 CFR 63 Subpart X

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H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 3 of 3

1. Parameter Code:	2. Pollutant(s):
	CO & VOC
3. CMS Requirement:	x Rule Other
4. Monitor Information	
Manufacturer: TBD	0 111 1
Model Number: TBD	Serial Number:
5. Installation Date:	6. Performance Specification Test Date: NA
7. Continuous Monitor Comment:	
Afterburner temperature monitor requir	ed by 40 CFR 63 Subpart X.
	26.
Continuous Monitoring System: Continuous	
1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ Other
4. Monitor Information	
Manufacturer:	
Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: x Previously Submitted, Date 8/2008
2.	Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date
3.	Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID:x Previously Submitted, Date 8/2008
4.	Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date
	Not Applicable (construction application)
5.	Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: x Previously Submitted, Date 12/2006
	☐ Not Applicable
6.	Compliance Demonstration Reports/Records: Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	Drawiewsky Sylvanitted Date.
	Previously Submitted, Date: Test Date(s)/Pollutant(s) Tested:
	Test Date(s)/Fonutant(s) Tested.
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	x Not Applicable
	Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7.	Other Information Required by Rule or Statute: Attached, Document ID: X Not Applicable

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I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis	s (Rules 62-212.400(10) and 62-212.500(7),
F.A.C.; 40 CFR 63.43(d) and (e)):	
Attached, Document ID:	x Not Applicable
2. Good Engineering Practice Stack Height	Analysis (Rules 62-212.400(4)(d) and 62-
212.500(4)(f), F.A.C.):	
Attached, Document ID:	x Not Applicable
3. Description of Stack Sampling Facilities: only)	(Required for proposed new stack sampling facilities
Attached, Document ID:	x Not Applicable
Additional Requirements for Title V Air O	peration Permit Applications
Identification of Applicable Requirem Attached, Document ID:	ents:
2. Compliance Assurance Monitoring: Attached, Document ID:	☐ Not Applicable
3. Alternative Methods of Operation: Attached, Document ID:	☐ Not Applicable
4. Alternative Modes of Operation (Emis	ssions Trading):
Attached, Document ID:	☐ Not Applicable
Additional Requirements Comment	

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

or renewal Title V	ulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised enewal Title V air operation permit. Skip this item if applying for an air construction nit or FESOP only.)					
The emissions emissions unit	ne emissions unit addressed in this Emissions Unit Information Section is a regulated nissions unit.					
The emissions unregulated er	unit addressed in this E	Emiss ———	sions Unit Informati	on Section is an		
Emissions Unit Desc	ription and Status					
1. Type of Emission	s Unit Addressed in this	Sec	tion: (Check one)			
single process	s Unit Information Sect or production unit, or a which has at least one of	ctivi	ty, which produces	one or more air		
group of proce	sions Unit Information Sess or production units at (stack or vent) but may	ınd a	ctivities which has a	it least one definable		
, —	s Unit Information Sector production units and		•	e emissions unit, one or fugitive emissions only.		
2. Description of En	nissions Unit Addressed	in th	is Section:			
Furnace Ta	npping, Charging, and	Lea	d Refining (Hygien	e Ventilation)		
3. Emissions Unit Id	entification Number: 0	33				
4. Emissions Unit Status Code: C	5. Commence Construction Date: 10/2009	6.	Initial Startup Date: Unknown	7. Emissions Unit Major Group SIC Code: 33		
8. Federal Program	Applicability: (Check a	ll tha	t apply)	<u> </u>		
Acid Rain Un	it					
CAIR Unit						
9. Package Unit: Manufacturer:			Model Number:			
10. Generator Namep	late Rating: MW					
			e Refining Kettles	and Fugitive emissions		

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Emissions Unit Control Equipment/Method:

1. Control Equipment/Method Description:

The process emissions from the Refining Kettles and the fugitive emissions from the Reverb Furnace and Blast Furnace are controlled by the Hygiene Baghouse.

Hygiene Baghouse Specifications:

72,000 acfm 62,500 dscfm 150 deg. F Negligible Moisture

12 Modules with 106 bags each = 1,272 bags total Filter Area = 1,272 bags x 30.36 sf/bag = 38,618 sq. ft. Gore on Polyester material Shaker type cleaning system

2. Control Device or Method Code: 017

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B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 25 ton/hr (refining)	
2.	Maximum Production Rate: 66 ton/hr (casting)	
3.	Maximum Heat Input Rate: NA million Btu/hr	
4.	Maximum Incineration Rate: pounds/hr	
	tons/day	
5.	Requested Maximum Operating Schedule:	
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year
6.	Operating Capacity/Schedule Comment:	
1		
	•	

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C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1.	Identification of Point on Flow Diagram: Hygiene		2. Emission Point 7	Type Code:				
3.	Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:				
	NA							
4.	ID Numbers or Description		nits with this Emission	Point in Common:				
	011,023 (fugitives), and (001 (fugitives)						
5.	Discharge Type Code: V	6. Stack Height 130 feet	:	7. Exit Diameter: 5.0 feet				
8	Exit Temperature:		metric Flow Rate:	10. Water Vapor:				
0.	150 °F	72,000 acfm	neine How Rate.	Negligible%				
11	. Maximum Dry Standard F 62,500 dscfm	low Rate:	12. Nonstack Emissi feet	on Point Height:				
13	. Emission Point UTM Coo	rdinates		atitude/Longitude				
	Zone: East (km):		Latitude (DD/M)	*				
15	North (km) . Emission Point Comment.		Longitude (DD/I	MIM/SS)				
13	. Emission Form Comment	•						
]								

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Seg	1. Segment Description (Process/Fuel Type):						
Lead Refining							
Lea	iu Keiming						
2 50	urce Classification Code	2 (\$(<u> </u>	3. SCC Units:			
	400426	<i>(</i>)	<i>C</i>).	Tons of le		efined	
4. Ma 20	ximum Hourly Rate:	5.	Maximum . 175,000	Annual Rate:	6.	Estimated Annual Activity Factor: NA	
7. Ma NA	ximum % Sulfur:	8.	Maximum NA	% Ash:	9.	Million Btu per SCC Unit: NA	
10. Seg	gment Comment:	•					
j							
						•	
Segme	nt Description and Ra	te:	Segment	of			
	gment Description (Proc			<u> </u>			
	3 = 220p (2.20.		- der 2 / p =).				
				T - 2222	·		
2. Soi	urce Classification Code	e (SC	CC): 	3. SCC Units:			
4. Ma	ximum Hourly Rate:	5.	Maximum .	Annual Rate:	6.	Estimated Annual Activity Factor:	
7. Ma	ximum % Sulfur:	8.	Maximum	% Ash:	9.	Million Btu per SCC Unit:	
10. Seg	gment Comment:	L			<u> </u>		
}							
ł							

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Effective: 03/11/2010

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant				
	Device Code	Device Code	Regulatory Code				
PM/PM10/PM2.5	017		EL				
PB	017		EL				
NOX			EL				
CO			EL				
SO2			EL				
VOC			EL				

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM/PM10/PM2.5	2. Total Perc. 99.9	ent Efficie	ency of Control:	
3. Potential Emissions: 2.68 lb/hour 11.74	tons/year	-	netically Limited? 'es x No	
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):			
6. Emission Factor: 0.005 gr/dscf Reference: BACT			7. Emissions Method Code:	
	<u> </u>		0	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:	
tons/year	From:	Т	To:	
9.a. Projected Actual Emissions (if required):	9.b. Projected	Monitori	ng Period:	
tons/year	5 yea	rs 🗀 1	0 years	
10. Calculation of Emissions:			<u> </u>	
11. Potential, Fugitive, and Actual Emissions Comment:				
		·		

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POLLUTANT DETAIL INFORMATION Page 2 of 8

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Emissions: NA	of Allowable
3.	Allowable Emissions and Units: 0.005 gr/dscf	4.	Equivalent Allowable E 2.68 lb/hour	Emissions: 11.74 tons/year
5.	Method of Compliance: Stack Test and Bag Leak Detection System	n		
6.	Allowable Emissions Comment (Description Proposed BACT Limit	of (Operating Method):	

Allowable Emissions 2 of 2

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Emissions: NA	of Allowable
3.	Allowable Emissions and Units: 0.03 gr/dscf	4.	Equivalent Allowable 16.07 lb/hour	Emissions: 70.39 tons/year
5.	5. Method of Compliance: Stack Test and Bag Leak Detection System			
6.	 Allowable Emissions Comment (Description of Operating Method): 62-296.712 FAC 			

Allowable Emissions __ of ___

Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description	on of Operating Method):

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PB	2. Total Perc 99.9	ent Efficie	ency of Control:
3. Potential Emissions: 0.05 lb/hour 0.21	tons/year		netically Limited?
5. Range of Estimated Fugitive Emissions (as to tons/year			
6. Emission Factor: 0.2 mg/dscm Reference: Proposed BACT Limit			7. Emissions Method Code: 0
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline From:		Period:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected 5 year		ng Period: 0 years
10. Calculation of Emissions:	ommont:		
11. Potential, Fugitive, and Actual Emissions Co	omment:		

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 3

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Allowable Emissions: NA
3.	Allowable Emissions and Units: 0.2 mg/dscm	4.	Equivalent Allowable Emissions: 0.05 lb/hour 0.21 tons/year
5.	. Method of Compliance: Stack Test and Bag Leak Detection System		
6.	6. Allowable Emissions Comment (Description of Operating Method): Proposed BACT Limit		

Allowable Emissions 2 of 3

Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: NA
3. Allowable Emissions and Units: 2 mg/dscm	4. Equivalent Allowable Emissions: 0.46 lb/hour 2.06 tons/year
Method of Compliance: Stack Test and Bag Leak Detection System Allowable Emissions Comment (Description of Operating Method): 40 CFR 63 Subpart X	

Allowable Emissions 3 of 3

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date Emissions: NA	e of Allowable
3.	Allowable Emissions and Units: 0.0011 gr/dscf*	4.	Equivalent Allowabl 0.59 lb/hour	e Emissions: 2.58 tons/year
5.	5. Method of Compliance: Stack Test and Bag Leak Detection System			
6. Allowable Emissions Comment (Description of Operating Method): 62-296.603 FAC [*Air-flow-weighted average of furnace fugitive limit (0.002 gr/dscf) and kettle limit (0.0002 gr/dscf)]				

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POLLUTANT DETAIL INFORMATION Page 5 of 8

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Pollutant Emitted:	2. Total Percent Efficient				
NOX					
3. Potential Emissions:		netically Limited?			
5.0 lb/hour 21.90	tons/year Y	es x No			
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):				
6. Emission Factor: 5.0 lb/hr		7. Emissions Method Code:			
Reference: Based on CEMS data		0			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:			
tons/year	From:	Го:			
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:			
tons/year		0 years			
10. Calculation of Emissions:					
·					
11. Potential, Fugitive, and Actual Emissions Comment:					
	•				

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POLLUTANT DETAIL INFORMATION Page 6 of 8

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

Basis for Allowable Emissions Code: OTHER	Future Effective Date of Allowable Emissions: NA		
3. Allowable Emissions and Units: 5.0 lb/hr	4. Equivalent Allowable Emissions: 5.0 lb/hour 21.9 tons/year		
5. Method of Compliance: CEMS			
6. Allowable Emissions Comment (Descript Proposed BACT	ion of Operating Method):		
Allowable Emissions Allowable Emissions	of		
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:		
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year		
5. Method of Compliance:			
6. Allowable Emissions Comment (Description of Operating Method):			
Allowable Emissions Allowable Emissions			
Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:		
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year		
5. Method of Compliance:			
6. Allowable Emissions Comment (Description of Operating Method):			

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: SO2	2. Total Percent Efficient	ency of Control:		
3. Potential Emissions: 38.34 lb/hour 167.93		netically Limited? Yes x No		
5. Range of Estimated Fugitive Emissions (as to tons/year				
6. Emission Factor: 0.133 lb/lb sulfur + 2% 1	furnace emissions	7. Emissions Method Code:		
Reference: Derived from stack tests		5		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:		
tons/year	From:	To:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:		
tons/year		0 years		
10. Calculation of Emissions:				
11. Potential, Fugitive, and Actual Emissions Co	omment:			

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

<u>Allowable Emissions</u> Allowable Emissions $\underline{1}$ of $\underline{1}$

1.	Basis for Allowable Emissions Code: ESCPSD	2.	Future Effective Date of Allowable Emissions: NA	
3.	Allowable Emissions and Units: 202.24 lb/hr	4.	Equivalent Allowable Emissions: 202.24 lb/hour 885.8 tons/year	
5.	Method of Compliance: Stack Testing			
	6. Allowable Emissions Comment (Description of Operating Method): PSD Avoidance Limit - This emission limit applies to the combined emissions from the Feed Dryer, Reverb Furnace, Blast Furnace, and Refining Kettles.			
All	owable Emissions Allowable Emissions	of_	_	
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:	
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:	
			lb/hour tons/year	
	Method of Compliance: Allowable Emissions Comment (Description	of 0	Operating Method):	
All	owable Emissions Allowable Emissions	of_	_	
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:	
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year	
5.	Method of Compliance:			
6.	6. Allowable Emissions Comment (Description of Operating Method):			

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G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
	VE03	X Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 3 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
	5. Method of Compliance:		
	EPA Reference Method 9		
	C. W. T. F. C C		
	6. Visible Emissions Comment:		
	Rule 62-296.603.FAC		
	itule da apologia rae		
Vi	sible Emissions Limitation: Visible Emissi	ons Limitation of	
_	Visible Emissions Subtype:	2. Basis for Allowable	
1.	VE10	x Rule	Other
		X Rule	
3.	Allowable Opacity: Normal Conditions: 10 % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	-	min/hour
1	Method of Compliance:		
4.	EPA Reference Method 9		
	El A Reference Method 7		
5.	Visible Emissions Comment:	·- ·	
	40 CFR 60 Subpart L		
I			

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H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 1

1.	Parameter Code: Bag Leak Detection	2. Pollutant(s): PM & PB
3.	CMS Requirement:	Rule Other
4.	Monitor Information Manufacturer: TBD	
	Model Number:	Serial Number:
5.	Installation Date: Prior to startup	 Performance Specification Test Date: NA
	7. Continuous Monitor Comment: Bag Leak Detection required by 40 C	FR 63 Subpart X
<u>Co</u>	entinuous Monitoring System: Continuous	Monitor of
1.	Parameter Code:	2. Pollutant(s):
3.	CMS Requirement:	Rule Other
4.	Monitor Information Manufacturer:	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
7.	Continuous Monitor Comment:	

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I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID:			
2.	Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date			
3.	Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: x Previously Submitted, Date 8/2008			
4.	Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)			
	Attached, Document ID: Previously Submitted, Date X Not Applicable (construction application)			
	x Not Applicable (construction application)			
5.	Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: x Previously Submitted, Date 12/2006			
	☐ Not Applicable			
6.	Compliance Demonstration Reports/Records: Attached, Document ID:			
	Test Date(s)/Pollutant(s) Tested:			
	Previously Submitted, Date:			
	Test Date(s)/Pollutant(s) Tested:			
	To be Submitted, Date (if known):			
	Test Date(s)/Pollutant(s) Tested:			
,	x Not Applicable			
,	Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.			
7.	Other Information Required by Rule or Statute: Attached, Document ID: X Not Applicable			

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7),							
F.A.C.; 40 CFR 63.43(d) and (e)):							
X Attached, Document ID: Section 4.0 Not Applicable							
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.40	00(4)(d) and 62-						
212.500(4)(f), F.A.C.):							
Attached, Document ID: X Not Applicable	·						
3. Description of Stack Sampling Facilities: (Required for proposed new only)	v stack sampling facilities						
Attached, Document ID: X Not Applicable							
Additional Requirements for Title V Air Operation Permit Applications							
1. Identification of Applicable Requirements:							
Attached, Document ID:							
2. Compliance Assurance Monitoring:							
Attached, Document ID: Not Applicable							
3. Alternative Methods of Operation:							
Attached, Document ID: Not Applicable							
4. Alternative Modes of Operation (Emissions Trading):							
Attached, Document ID: Not Applicable							
Additional Requirements Comment							

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1.	. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)						
	☐ The emissions unit addressed in this Emissions Unit Information Section is a regulated						
	emissions unit. The emissions		Emissions Unit Informa	tion Section is an			
	unregulated em						
<u>E</u>	missions Unit Desci	ription and Status					
1.	Type of Emissions	Unit Addressed in this	s Section: (Check one)				
	This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).						
	This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.						
	This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.						
2.	Description of Em	issions Unit Addressed	I in this Section:				
	Emergency Generator						
3.	. Emissions Unit Ide	entification Number: 0	37				
4.	. Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit			
	Status Code: C	Construction Date:	Date:	Major Group SIC Code: 33			
8	. Federal Program A	applicability: (Check a	ll that apply)				
	☐ Acid Rain Unit						
L	CAIR Unit						
9	9. Package Unit: Manufacturer: Caterpillar Model Number: DM9933						
└	0. Generator Namepl						
1	1. Emissions Unit Co						
	Diesel-fired IC En	gme.					
1							

Emissions Unit Control Equipment/Method:

1.	1. Control Equipment/Method Description:			
	NA			
2.	Control Device or Method Code:			
	NA			
1				

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Process or Throughput Rate: 1000 kW	
2.	Maximum Production Rate:	
3.	Maximum Heat Input Rate: million Btu/hr	
4.	Maximum Incineration Rate: pounds/hr	
	tons/day	
5.	Requested Maximum Operating Schedule:	
	24 hours/day	7 days/week
	52 weeks/year	500 hours/year
6.	Operating Capacity/Schedule Comment:	
	Emergency use only.	

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C. EMISSION POINT (STACK/VENT) INFORMATION (Optional for unregulated emissions units.)

Emission Point Description and Type

Identification of Point on Flow Diagram: Generate		2. Emission Point 7	Гуре Code:			
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:						
Generator exhaust only.						
037	4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: 037					
5. Discharge Type Code: V	6. Stack Height 12 feet	:	7. Exit Diameter: 0.67 feet			
8. Exit Temperature: 893 °F	9. Actual Volum 8,129 acfm	metric Flow Rate: 10. Water Vapor: Unknown %				
11. Maximum Dry Standard F NA dscfm	low Rate:	12. Nonstack Emissi feet	on Point Height:			
13. Emission Point UTM Coo Zone: East (km): North (km)		14. Emission Point I Latitude (DD/M Longitude (DD/I	•			
15. Emission Point Comment:						

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

2. Source Classification Cod 29199192	3. SCC Units: 1000 Gallons			
4. Maximum Hourly Rate: 0.072	5. Maximum . 36.0	L	6.	Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: 0.05	8. Maximum 9	% Ash:	9.	Million Btu per SCC Unit 139
10. Segment Comment:				
			•	
Segment Description and R	ate: Segment	of	· .	
			·	
Segment Description and Radio Segment Description (Pro				
1. Segment Description (Pro	cess/Fuel Type):		::	
Segment Description (Pro Source Classification Cod	cess/Fuel Type):	3. SCC Units	_,	
1. Segment Description (Pro	cess/Fuel Type):	3. SCC Units	_,	Estimated Annual Activity Factor:

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM/PM10/PM2.5			EL
NOX			EL
CO			EL
SO2			NS
	 	 	

POLLUTANT DETAIL INFORMATION
Page 1 of 8

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM/PM10/PM2.5	Total Percent Efficiency of Control: NA	
3. Potential Emissions: 0.44 lb/hour 0.11	_	thetically Limited? Yes X No
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):	
6. Emission Factor: 0.2 g/kWh Reference: NSPS Subpart IIII		7. Emissions Method Code:
-	0.1 D 1' 0.4	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-mont	
tons/year	From:	<u>To:</u>
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitor	ring Period:
tons/year	5 years	10 years
10. Calculation of Emissions:		
PM = 0.2 g/kWhr x 1000 kW / (454 g/lb) =	= 0.44 lb/hr	
11. Potential, Fugitive, and Actual Emissions Co	omment:	

POLLUTANT DETAIL INFORMATION Page 2 of 8

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: NA				
3. Allowable Emissions and Units: 0.02 g/kWh	4. Equivalent Allowable Emissions: 0.44 lb/hour 0.11 tons/year				
5. Method of Compliance: Manufacturer-certified Tier 2 Engine					
6. Allowable Emissions Comment (Description					
Allowable Emissions Allowable Emissions					
Basis for Allowable Emissions Code:	Future Effective Date of Allowable Emissions:				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year				
5. Method of Compliance:	·				
6. Allowable Emissions Comment (Description of Operating Method):					
Allowable Emissions Allowable Emissions	_ of				
Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year				
5. Method of Compliance:					
6. Allowable Emissions Comment (Descriptio	n of Operating Method):				

POLLUTANT DETAIL INFORMATION Page 3 of 8

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: NOX & VOC (NMHC)	2. Total Perc NA	ent Efficie	ency of Control:	
	tons/year	•	netically Limited? Yes X No	
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):			
6. Emission Factor: 6.4 g/kWh Reference: NSPS Subpart IIII			7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline From:		<u> </u>	
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected 5 year		ng Period: 0 years	
10. Calculation of Emissions: NOX + NMHC = 6.4 g/kWhr x 1000 kW /		4.09 lb/hr		
11. Potential, Fugitive, and Actual Emissions Comment:				

POLLUTANT DETAIL INFORMATION Page 4 of 8

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions: NA			
3.	Allowable Emissions and Units: 6.4 g/kWh	4.	Equivalent Allowable Emissions: 14.09 lb/hour 3.52 tons/year			
5.	5. Method of Compliance: Manufacturer-certified Tier 2 Engine					
6.	6. Allowable Emissions Comment (Description of Operating Method):					
All	lowable Emissions Allowable Emissions	of _	<u>_</u>			
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year			
5.	Method of Compliance:	•				
6.	Allowable Emissions Comment (Description	of (Operating Method):			
Al	lowable Emissions Allowable Emissions	of_	_			
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:			
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year			
5.	Method of Compliance:	•				
6.	Allowable Emissions Comment (Description	of	Operating Method):			

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency	ey of Control:		
3. Potential Emissions: 7.71 lb/hour 1.93	4. Synthetic Yes	ically Limited?		
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 3.5 g/kWh	7.	. Emissions Method Code:		
Reference: NSPS Subpart IIII		0		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Per	eriod:		
tons/year	From: To:			
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring	Period:		
tons/year		vears		
10. Calculation of Emissions:				
10. Calculation of Emissions: CO = 3.5 g/kWhr x 1000 kW / (454 g/lb) = 7.71 lb/hr				
11. Potential, Fugitive, and Actual Emissions Comment:				

POLLUTANT DETAIL INFORMATION Page 6 of 8

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions: NA				
3. Allowable Emissions and Units: 3.5 g/kWh	4. Equivalent Allowable Emissions: 7.71 lb/hour 1.93 tons/year				
5. Method of Compliance: Manufacturer-certified Tier 2 Engine					
6. Allowable Emissions Comment (Description of Operating Method):					
Allowable Emissions	of				
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year				
5. Method of Compliance:					
6. Allowable Emissions Comment (Description of Operating Method):					
Allowable Emissions Allowable Emissions	_ of				
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:				
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year				
5. Method of Compliance:					
6. Allowable Emissions Comment (Description	n of Operating Method):				

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F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

I Olential, Estimated Tugitive, and Dasenne o	t Trojected Actual Emissions			
1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control:			
3. Potential Emissions:	4. Synthetically Limited?			
	tons/year Yes X No			
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 1.018 lb/MMBtu	7. Emissions			
Reference: AP-42	Method Code:			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Period:			
tons/year	From: To:			
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring Period:			
tons/year	5 years 10 years			
10. Calculation of Emissions:				
Assuming sulfur content of diesel = 0.5% AP-42 suggests using density = 7.1 lb/gal & heat content = 19,300 lb/Btu SO2 = 1.01(0.5) lb/MMBtu x 72.0 gal/hr x 7.1 lb/gal x 19,300 lb/Btu / (10 ⁶ Btu/MMBtu)				
= 4.98 lb/hr				
	•			
11. Potential, Fugitive, and Actual Emissions Comment:				
<u></u>				

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F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions	_of		
Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions:		
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year		
5. Method of Compliance:			
6. Allowable Emissions Comment (Description	on of Operating Method):		
Allowable Emissions Allowable Emissions	of		
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:		
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year		
5. Method of Compliance:			
6. Allowable Emissions Comment (Description	on of Operating Method):		
Allowable Emissions Allowable Emissions	_ of		
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:		
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year		
5. Method of Compliance:			
6. Allowable Emissions Comment (Description	on of Operating Method):		

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>2</u>

1.	Visible Emissions Subtype: VE20	2. Basis for Allowable (x) Rule	Opacity: Other
3.	Allowable Opacity: Normal Conditions: 20 % Ex Maximum Period of Excess Opacity Allower	cceptional Conditions:	% min/hour
	1. Method of Compliance: EPA Reference Method 9		
	2. Visible Emissions Comment:		
Vi	sible Emissions Limitation: Visible Emissi	ons Limitation of	
1.	Visible Emissions Subtype:	2. Basis for Allowable (Rule	Opacity: Other
3.	Allowable Opacity: Normal Conditions: % Ex Maximum Period of Excess Opacity Allower	cceptional Conditions:	% min/hour
4.	Method of Compliance:		
5.	Visible Emissions Comment:		

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor __ of ___ 1. Parameter Code: 2. Pollutant(s): ☐ Other 3. CMS Requirement: ☐ Rule 4. Monitor Information... Manufacturer: Model Number: Serial Number: 5. Installation Date: 6. Performance Specification Test Date: 7. Continuous Monitor Comment: Continuous Monitoring System: Continuous Monitor ___ of ___ 1. Parameter Code: 2. Pollutant(s): 3. CMS Requirement: ☐ Rule ☐ Other 4. Monitor Information... Manufacturer: Model Number: Serial Number: 5. Installation Date: 6. Performance Specification Test Date: 7. Continuous Monitor Comment:

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID:		
2.	Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date		
3.	Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: x Previously Submitted, Date 8/2008		
4.	Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: Previously Submitted, Date Not Applicable (construction application)		
5.	Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) Attached, Document ID: x Previously Submitted, Date 12/2006 Not Applicable		
6.	Compliance Demonstration Reports/Records: Attached, Document ID: Test Date(s)/Pollutant(s) Tested:		
	Previously Submitted, Date: Test Date(s)/Pollutant(s) Tested:		
	To be Submitted, Date (if known): Test Date(s)/Pollutant(s) Tested:		
	Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.		
7.	Other Information Required by Rule or Statute: Attached, Document ID: X Not Applicable		

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I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7),			
	F.A.C.; 40 CFR 63.43(d) and (e)):		
	X Attached, Document ID: Section 4.0	☐ Not Applicable	
2.	Good Engineering Practice Stack Height Ar	nalysis (Rules 62-212.400(4)(d) and 62-	
	212.500(4)(f), F.A.C.):		
	Attached, Document ID:	x Not Applicable	
3.	Description of Stack Sampling Facilities: (I only)	Required for proposed new stack sampling facilities	
	Attached, Document ID:	X Not Applicable	
Additional Requirements for Title V Air Operation Permit Applications			
1.	Identification of Applicable Requirement Attached, Document ID:	nts:	
2.	Compliance Assurance Monitoring: Attached, Document ID:	☐ Not Applicable	
<u> </u>			
3.	Alternative Methods of Operation:	☐ Not Applicable	
	Attached, Document ID:		
4.	4. Alternative Modes of Operation (Emissions Trading):		
<u> </u>	Attached, Document ID:	☐ Not Applicable	
Additional Requirements Comment			
Ì			

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