



Permit Application for Sulfur Dioxide Reallocation and Additional Ventilation

Prepared for: EnviroFocus Technologies, LLC Tampa, Florida

Prepared by: ENVIRON International Corporation Asheville, North Carolina

Date: July 2012

Project Number: 07-15422D



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#### 1 Introduction

In August 2008 EnviroFocus Technologies, LLC (EFT) submitted a PSD permit application to the Florida Department of Environmental Protection (DEP) for an expansion of their battery recycling plant in Tampa, Florida. DEP issued a PSD Permit (Air Permit No. PSD-FL-404, DEP File No. 0570057-020-AC) on October 22, 2009 authorizing the expansion. EFT is currently in the process of constructing the modifications authorized by the PSD permit and has determined the need for two changes to the PSD permit. The first change is a reallocation of some of the permitted sulfur dioxide emissions from the process stack to the hygiene stack. No increase in overall sulfur dioxide emissions is being requested. The second change is the addition of new baghouse capacity to increase the ventilation of the process enclosure. This additional air flow is needed to reduce building heat load and ensure compliance with the enclosure ventilation requirements of the Secondary Lead NESHAP. Additional details describing the proposed changes and their regulatory implications are presented in the following sections. The applicable state-approved application forms were completed for all emission units involved in this permitting action and are presented in Appendix A.

#### 2 Sulfur Dioxide Reallocation

The PSD permit application submitted by EFT in 2008 proposed a plant-wide limit on sulfur dioxide emissions in order to avoid PSD applicability for that pollutant. The major portion of the sulfur dioxide emissions was attributed to the process stack, which exhausts the reverb furnace (EU ID No. 023), blast furnace (EU ID No. 001), and feed dryer (EU ID No. 022). A smaller portion was allotted to the hygiene stack. The emissions from the hygiene stack, which serves the furnace tapping, furnace charging, and lead refining emissions (EU ID No. 011) were estimated based on the sulfur dioxide produced by the introduction of sulfur-containing materials into the refining kettles. The remaining allowable sulfur dioxide emissions under the plant-wide PSD avoidance limit were allotted to the process stack, providing ample compliance margin for the sulfur dioxide emissions from the furnaces using a reasonably well design scrubber.

However, during the construction of the expansion project it was noted that a small amount of sulfur dioxide escapes the direct furnace exhausts, which go to the process stack, and is captured by the tapping and charging hooding, which is routed to the hygiene stack. In order to account for this unanticipated distribution of sulfur dioxide emissions, EFT is requesting that the PSD-avoidance limits on the process stack and hygiene stack be revised.

#### 2.1 Revised Hygiene Stack Emissions Estimate

As shown in the 2008 PSD application, the uncontrolled sulfur dioxide emissions from the reverb furnace and blast furnace were estimated based on an emission factor of 80 pounds of sulfur dioxide per ton of lead produced. The maximum process rates for the two furnaces are 40 ton/hr and 7.5 ton/hr, respectively. The desulfurization process employed at the facility reduces the potential sulfur dioxide emissions by approximately 60 percent. Therefore, the maximum sulfur dioxide produced in the furnaces and can be estimated as follows:

SO2 Emissions (before scrubber) = 80 lb/ton x (40 + 7.5 ton/hr) x (1 - 60%) = 1520 lb/hr

It has been determined, based on observations made at the plant, that as much as 2% of these emissions may escape the direct evacuation of gases from the furnace and be captured in by the fugitive (hygiene) hooding. Therefore, the additional sulfur dioxide emissions that may be emitted from the hygiene stack are calculated as shown:

SO2 Emissions (furnace fugitives) = 1520 lb/hr x 2% = 30.4 lb/hr

The sulfur dioxide from the use of sulfur-containing materials in the refining kettles has already been estimated (and included as the current PSD permit limit on the hygiene stack) as 7.94 lb/hr (Condition C.9). Therefore, EFT requests that this limit be increased to the sum of these two values shown below:

New SO2 Emissions Limit (hygiene stack) = 30.4 lb/hr + 7.94 lb/hr = 38.34 lb/hr

#### 2.2 Revised Process Stack Emissions Estimate

In order to maintain compliance with the plant-wide PSD avoidance limit, EFT proposes to reduce the sulfur dioxide limit on the process stack, which is currently 194.3 lb/hr (Condition

B.15), by the same amount that was added to the hygiene stack. Therefore, the new sulfur dioxide limit for the process stack is calculated as follows:

New SO2 Emissions Limit (process stack) = 194.3 lb/hr - 30.4 lb/hr = 163.9 lb/hr

The sulfur dioxide scrubber on the furnace emissions is expected to be approximately 90 percent efficient resulting in an anticipated sulfur dioxide emission rate of 152 pounds per hour, so this reduced limit on the process stack provides ample margin of compliance.

#### 3 Additional Ventilation

In addition to the sulfur dioxide emissions reallocation, EFT has determined that additional ventilation capacity will be needed on the building housing the furnaces in order to meet the enclosure requirements of the Secondary Lead NESHAP. The 2008 PSD permit application proposed the installation of a 195,000 cfm Torit cartridge collector to provide the general building ventilation (EU ID No. 15). During construction of the expansion, it was determined that additional air flow is needed. EFT is proposing to install a new 160,000 cfm cartridge collector to increase the negative pressure within the building. Additionally, to provide additional control of lead emissions, EFT will include a high efficiency particulate air (HEPA) filter downstream of the cartridge collector.

#### 3.1 BACT Considerations

As noted in the PSD permit, Best Available Control Technology (BACT) for building ventilation was determined to be 0.005 gr/dscf for particulate matter emissions and 0.05 mg/dscm (0.000022 gr/dscf) for lead emissions (Conditions G.6 & G.7). EFT proposes to maintain these BACT limits for the additional air flow of the new cartridge collector. The particulate matter emissions can therefore be estimated as follows:

PM Emissions (Torit Stack 2) =  $0.005 \text{ gr/dscf} \times 160,000 \text{ dscfm} \times 60 \text{ min/hr} / 7000 \text{ gr/lb}$ 

= 6.86 lb/hr

The lead emissions can be determined in a similar fashion using its BACT limit:

Pb Emissions (Torit Stack 2) = 0.000022 gr/dscf x 160,000 dscfm x 60 min/hr / 7000 gr/lb

= 0.030 lb/hr

#### 3.2 Modeling Considerations

The 2008 PSD permit application included modeling of particulate matter and lead emissions in order to demonstrate compliance with the National Ambient Air Quality Standards (NAAQS). Because the new Torit stack will emit particulate matter and lead, the modeling that was submitted with the 2008 PSD permit application isbeing revised. The revised modeling report, which will become Appendix B of this document, will be submitted within the next few weeks. The location of the new Torit collector and its stack have not yet been determined, but they are currently expected to be installed at one of two locations as shown in the figure on the following page.

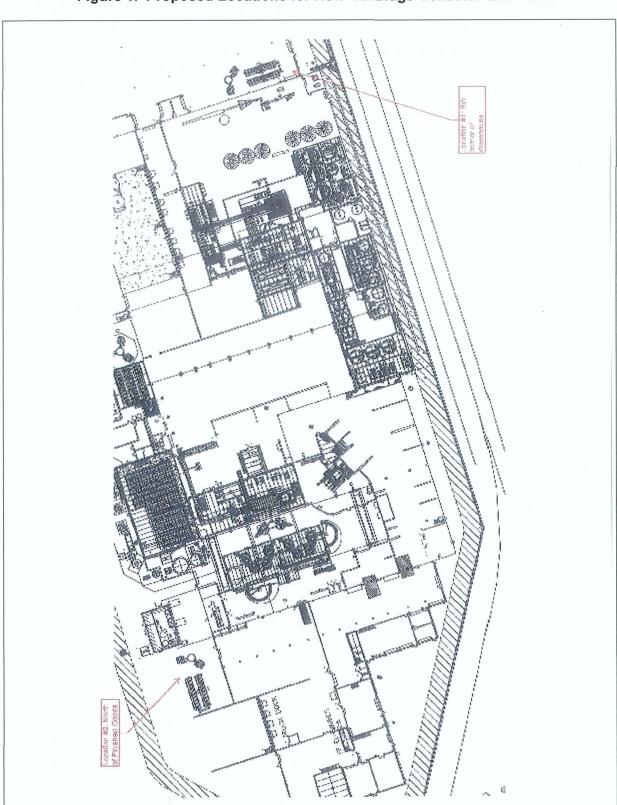


Figure 1. Proposed Locations for New Cartridge Collector and Stack

# Appendix A Application Forms

Appendix A ENVIRON



### Department of **Environmental Protection**

#### Division of Air Resource Management APPLICATION FOR AIR PERMIT - LONG FORM

#### I. APPLICATION INFORMATION

**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** 1. Facility Owner/Company Name: EnviroFocus Technologies, LLC 2. Site Name: EnviroFocus Technologies, LLC 3. Facility Identification Number: 0570057 4. Facility Location... 1901 N. 66<sup>th</sup> Street Street Address or Other Locator: County: Hillsborough City: Tampa Zip Code: 33619 5. Relocatable Facility? 6. Existing Title V Permitted Facility? ☐ Yes X No X Yes $\square$ No **Application Contact** 1. Application Contact Name: Steve Yates 2. Application Contact Mailing Address... Organization/Firm: Gopher Resource Street Address: 685 Yankee Doodle Road State: MN City: Eagan Zip Code: **55121** 3. Application Contact Telephone Numbers... Telephone: (651 ) 405 - 2213 ext. Fax: ( ) -4. Application Contact E-mail Address: steve.yates@gopherresource.com **Application Processing Information (DEP Use)**

	Date of Receipt of A		_	3. PSD Number (if applicable):
2.	Project Number(s):	0570057-	027-1	Siting Number (if applicable):

### **Purpose of Application**

This application for air permit is being submitted to obtain: (Check one)
Air Construction Permit
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 reallocate SO2 emissions and construct additional enclosure ventilation.

#### **Scope of Application**

Scope of Ap	pheation		
Emissions		Air	Air Permit
Unit ID	Description of Emissions Unit	Permit	Processing
Number	Description of Emissions onto	Type	Fee
		- Type	
022	Feed Dryer	ACIA	\$7500
023	Reverb Furnace	ACIA	\$7500
001	Blast Furnace	ACIA	\$7500
011	Refining Kettles and Furnace Fugitives	ACIA	\$7500
024A	Building Ventilation A	ACIA	\$7500
024B	Building Ventilation B	ACIA	\$7500
·			
<del>_</del>			
	<u> </u>		

Application	Processing Fee	

Check one	x	Attached - Amount: \$ 7500	Not Applicable
Check one.	_^	Attached - Amount. \$\frac{7500}{}	Tion 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: 1901 N. 66th Street

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.

7/30/12 Date

DEP Form No. 62-210.900(1) - Form

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#### **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.

Signature	Date

DEP Form No. 62-210.900(1) – Form

<u>Pr</u>	ofessional Engineer Certification			
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 unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all providions contained in such permit.  Signature  Date			
	(seal) STATE OF			

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\* 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.	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	<b>A</b>		33	3341
7.	7. Facility Comment:				

#### **Facility Contact**

1. Facility Contact Name:

**Angela Fogerty** 

2. Facility Contact Mailing Address...

Organization/Firm: EnviroFocus Technologies, LLC

Street Address: 6505 Jewel Avenue

City: Tampa State: Florida

Zip Code: **33619** 

3. Facility Contact Telephone Numbers:

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

4. Facility Contact E-mail Address: angela.fogerty@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."

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:

DEP Form No. 62-210.900(1) – Form

#### 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
PB	В	N
SAM	В	N
SAW .		

DEP Form No. 62-210.900(1) – Form

#### **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			912.1	ESCPSD
SO2	Y			891.5	ESCPSD
				<del> </del>	
<u> </u>					<del>                                     </del>
					<del> </del>
	<u> </u>	L	L		L

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

DEP Form No. 62-210.900(1) – Form

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#### 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)  X Attached, Document ID: Figure 1-2 Previously Submitted, Date:
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
L	<u></u>
	ditional 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
8.	Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.):  Attached, Document ID: Not Applicable
9.	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

DEP Form No. 62-210.900(1) – Form

#### 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)
Ad	Iditional 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
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 N	o. 62-210.900(1)(a)):
Attached, Document ID:	Previously Submitted, Date:
	rce)
Phase II NO <sub>X</sub> 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.):
	Previously Submitted, Date:
☐ Not Applicable	
. CAIR Part (DEP Form No. 62-210.900(1)	(b)):
Attached, Document ID:	Previously Submitted, Date:
☐ Not Applicable (not a CAIR source)	
Additional Requirements Comment	

DEP Form No. 62-210.900(1) – Form

### EMISSIONS UNIT INFORMATION Section [ ] of [ ]

#### 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.

DEP Form No. 62-210.900(1) – Form

#### A. GENERAL EMISSIONS UNIT INFORMATION

#### Title V Air Operation Permit Emissions Unit Classification

or renewal Title V	. 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.)						
emissions unit.  The emissions unit.	<ul> <li>☐ The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</li> <li>☐ The emissions unit addressed in this Emissions Unit Information Section is an</li> </ul>						
unregulated em							
Emissions Unit Descr		0 1 (01 1					
"	Unit Addressed in this	` ,	1				
<del>'</del> '	ions Unit Information Sor production unit, or ac		_				
	which has at least one de						
of process or pr	Unit Information Section oduction units and active vent) but may also prod	vities which has at least	e emissions unit, a group one definable emission				
	Unit Information Section production units and a	•	e emissions unit, one or fugitive emissions only.				
2. Description of Emi	ssions Unit Addressed i	n this Section:					
	Feed	Dryer					
3. Emissions Unit Identification Number:							
3. Emissions Unit Ide	mulication (value).						
4. Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit				
		6. Initial Startup Date: Unknown	7. Emissions Unit Major Group SIC Code: 33				
4. Emissions Unit Status Code: C	5. Commence Construction	Date: Unknown	Major Group				
4. Emissions Unit Status Code: C	5. Commence Construction Date: 10/2009  pplicability: (Check all	Date: Unknown	Major Group				
4. Emissions Unit Status Code: C  8. Federal Program A	5. Commence Construction Date: 10/2009  pplicability: (Check all	Date: Unknown	Major Group				
<ul> <li>4. Emissions Unit Status Code: C</li> <li>8. Federal Program A</li></ul>	5. Commence Construction Date: 10/2009  pplicability: (Check all	Date: Unknown that apply)	Major Group				
4. Emissions Unit Status Code: C  8. Federal Program A	5. Commence Construction Date: 10/2009  pplicability: (Check all	Date: Unknown	Major Group				
4. Emissions Unit Status Code: C  8. Federal Program A	5. Commence Construction Date: 10/2009  pplicability: (Check all  ate Rating: MW	Date: Unknown that apply)	Major Group				
4. Emissions Unit Status Code: C  8. Federal Program A	5. Commence Construction Date: 10/2009  pplicability: (Check all  ate Rating: MW  mment:	Date: Unknown that apply)  Model Number:	Major Group SIC Code: 33				
4. Emissions Unit Status Code: C  8. Federal Program A	5. Commence Construction Date: 10/2009  pplicability: (Check all  ate Rating: MW	Date: Unknown that apply)  Model Number:	Major Group SIC Code: 33				

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### EMISSIONS UNIT INFORMATION Section 1 of 6

#### **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 106 bags each = 318 bags total Filter Area = 318 bags x 30.36 sf/bag = 9,654 sq. ft. Gore on Gore 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: 40 ton/hr	_
2.	Maximum Production Rate:	
3.	Maximum Heat Input Rate: 10 million Btu/hr	<del></del>
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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### EMISSIONS UNIT INFORMATION Section 1 of 6

#### C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

#### **Emission Point Description and Type**

Identification of Point on Plot Plan or Flow Diagram: <b>Process Stack</b>		2. Emission Point 7	Гуре Code:	
3. Descriptions of Emission NA	Points Comprising	g this Emissions Unit	for VE Tracking:	
4. ID Numbers or Descriptio 023 – Reverb Furnace 001 – Blast Furnace	ns of Emission Ur	nits with this Emission	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 Volur 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 Coordinates  Zone: East (km):  North (km):		14. Emission Point Latitude/Longitude Latitude (DD/MM/SS) Longitude (DD/MM/SS)		
15. Emission Point Comment: This stack combines the (33,350 dscfm).		the dryer (11,700 dsc	fm) and the furnaces	

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Effective: 03/11/2010

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

#### Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type):

	Material Drying				
		<u> </u>	000111		
2.	Source Classification Cod <b>30400419</b>	e (SCC):	3. SCC Units  Ton mate		charged
4.	Maximum Hourly Rate: 40	5. Maximum A 338,400	Annual Rate:	6.	Estimated Annual Activity Factor: <b>NA</b>
7.	Maximum % Sulfur: NA	8. Maximum 9	% Ash:	9.	Million Btu per SCC Unit: NA
10.	Segment Comment:				
	gment Description and Ra		of <u>3</u>		
1.	Segment Description (Proc Natural Gas Combustion	* * '			
	Natural Gas Compustion	•			
_	S 01 'C ( 0 1	(5,00)	3. SCC Units		
2.	Source Classification Code 10200602	e (SCC):	MMCF	3: 	
4.	Maximum Hourly Rate: <b>0.010</b>	5. Maximum <i>i</i> <b>87.60</b>	Annual Rate:	6.	Estimated Annual Activity Factor: NA
7.	Maximum % Sulfur: NA	8. Maximum 9	% Ash:	9.	Million Btu per SCC Unit: 1000
10.	Segment Comment:	·		1	

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

Segment Description and Rate: Segment 3 of 3

1.	Segment Description (Propropropropropropropropropropropropropr	cess/Fuel Type):		_	
2.	Source Classification Cod 10201002	e (SCC):	3. SCC Units 1000 gallo		
4.	Maximum Hourly Rate: 0.109	5. Maximum . <b>957</b>	<u> </u>		Estimated Annual Activit Factor: <b>NA</b>
7.	Maximum % Sulfur: 15 gr/100 cf	8. Maximum NA	% Ash:	9.	Million Btu per SCC Unit 91.5
10.	Segment Comment:				
					<del></del>
<u>Se</u>	gment Description and Ra	ite: Segment	of		
1.	Segment Description (Prod	cess/Fuel Type):			
2.	Source Classification Code	e (SCC):	3. SCC Units:		
4.	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activit Factor:
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Uni
10	Segment Comment:	L	<del></del>	<u> </u>	<del>-</del>
10.	Segment Comment.				

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### EMISSIONS UNIT INFORMATION Section 1 of 6

#### 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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### 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 99.9	t Efficie	ency of Control:	
3. Potential Emissions:		•	etically Limited?	
<b>0.50</b> lb/hour <b>2.20</b>	tons/year	Y	es x No	
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):			
6. Emission Factor: 0.005 gr/dscf			7. Emissions Method Code:	
Reference: BACT		j	0	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-	-month	Period:	
tons/year	From:	T	o:	
9.a. Projected Actual Emissions (if required):	9.b. Projected M	lonitori	ng Period:	
tons/year	5 years 10 years			
10. Calculation of Emissions:  See Attached Emissions Inventory  11. Potential Engitive and Actual Emissions C	·			
11. Potential, Fugitive, and Actual Emissions C This accounts for the Feed Dryer's contri Process Stack.		ıl PM e	missions from the	

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### 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: <b>NA</b>		
3.	Allowable Emissions and Units: 0.005 gr/dscf	4.	<ul><li>4. Equivalent Allowable Emissions:</li><li>0.50 lb/hour</li><li>2.20 tons/year</li></ul>		
5.	Method of Compliance: Stack Test	-			
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 1 3.01 lb/hour	Emissions: 13.18 tons/year
5.	Method of Compliance: Stack Test			
6.	Allowable Emissions Comment (Description of Operating Method): 62-296.712 FAC			

#### Allowable Emissions \_\_ of \_\_\_

1.	Basis for Allowable Emissions Code:	2.	Future Effective Da Emissions:	te of Allowable
3.	Allowable Emissions and Units:	4.	Equivalent Allowab lb/hour	ole Emissions: tons/year
5.	Method of Compliance:	•		
6.	Allowable Emissions Comment (Description	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

Pollutant Emitted:     PB	2. Total Percent I 99.9	Efficier	ncy of Control:	
3. Potential Emissions:	4.	Synthe	etically Limited?	
<b>0.013</b> lb/hour <b>0.058</b>	tons/year		es 🗶 No	
5. Range of Estimated Fugitive Emissions (as	applicable):			
to tons/year				
6. Emission Factor: <b>0.3 mg/dscm</b>			7. Emissions	
Defense DACT			Method Code:	
Reference: BACT	01 7 1: 04	.1.7	0	
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-r			
tons/year	From:	To	·	
9.a. Projected Actual Emissions (if required):	9.b. Projected Mo		_	
tons/year	5 years	<u> </u>	years	
10. Calculation of Emissions:				
See attached Emissions Inventory				
	•			
11. Potential, Fugitive, and Actual Emissions Comment:  This accounts for the Feed Dryer's contribution to the total lead emissions from the				
Process Stack.				

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### 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: <b>NA</b>		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:		
	0.3 mg/dscm		<b>0.013</b> lb/hour <b>0.058</b> tons/year		
5.	Method of Compliance: Stack Test				
6.	Allowable Emissions Comment (Description of Operating Method):  Proposed BACT limit				
<u>Al</u>	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:  2 mg/dscm	4.	Equivalent Allowable Emissions:  0.088 lb/hour  0.386 tons/year		
5.	Method of Compliance: Stack Test				
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		
5.	Method of Compliance:				
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

Pollutant Emitted:     NOX	2. Total Percent Effici	ency of Control:		
3. Potential Emissions:		netically Limited?		
2.10 lb/hour 9.20	tons/year \( \squar \)	Yes X No		
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 0.21 lb/mm Btu		7. Emissions		
Reference: AP-42 Table 1.5-1 (BACT)		Method Code:		
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:  See Attached Emissions Inventory				
11. Potential, Fugitive, and Actual Emissions Comment:  This accounts for the dryer's contribution to the total NOx emissions from the process stack.				

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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

1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA	
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:	
	0.21 lb/mm Btu	<b>2.10</b> lb/hour <b>9.20</b> tons/year	
5.	Method of Compliance: Continuous Emissions Monitoring System	n	
6.	Allowable Emissions Comment (Description of Operating Method):  Proposed BACT limit		
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):	
<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:		
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

Totellar, Estimated Tugitive, and Dasenne e		<del></del>
1. Pollutant Emitted:	2. Total Percent Efficient	cy of Control:
CO		
3. Potential Emissions:	4. Synthet	tically Limited?
	B tons/year ☐ Yes	•
	tons/year	
5. Range of Estimated Fugitive Emissions (as	s applicable):	
to tons/year		
6. Emission Factor: 0.084 lb/mm Btu	7	7. Emissions
		Method Code:
Reference: AP-42 Table 1.4-2		3
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month Po	eriod:
tons/year	From: To:	
On Projected Actual Emissions (if we wined)		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitoring	
tons/year	$\square$ 5 years $\square$ 10	years
10. Calculation of Emissions:		
See Attached Emissions Inventory		
·		
11.7		
11. Potential, Fugitive, and Actual Emissions C		
This accounts for the dryer's contribution	n to the total CO emissions	s from the process
stack.		

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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	2.	Future Effective Date of Allowable Emissions: <b>NA</b>
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	
	Allowable Emissions Comment (Description This limit applies to the combined emission Blast Furnace.		· ,
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:  1b/hour tons/year
5.	Method of Compliance:		
	Allowable Emissions Comment (Description  lowable Emissions Allowable Emissions		Operating Method):
	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):

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: SO2	2. Total Percent Efficient NA	ency of Control:
3. Potential Emissions:  0.17 lb/hour  0.72		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:
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month From:	
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitori	ng Period: 0 years
10. Calculation of Emissions:  See Attached Emissions Inventory  11. Potential Engitive and Actual Emissions Company	omment:	
11. Potential, Fugitive, and Actual Emissions Contribution This accounts for the dryer's contribution process stack.		sions from the

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Allowable Emissions Allowable Emissions of \_\_\_

## 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.

	<del>_</del>	
1.	Basis for Allowable Emissions Code: ESCPSD	Future Effective Date of Allowable Emissions: NA
3.	Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	163.9 lb/hr	<b>163.9</b> lb/hour <b>717.9</b> tons/year
5.	Method of Compliance: Continuous Emissions Monitoring System	
6.	Allowable Emissions Comment (Description	· · · · · · · · · · · · · · · · · · ·
	<u> </u>	ned emissions from the Feed Dryer, Reverb
Fu	rnace, and Blast Furnace.	
Al	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:
<i>J</i> .	Allowable Limissions and Olitis.	lb/hour tons/year
5.	Method of Compliance:	
	-	
6.	Allowable Emissions Comment (Description	n of Operating Method):
	` .	,
Al	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	n of Operating Method):
ĺ		-
l .		

## POLLUTANT DETAIL INFORMATION Page 11 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

Pollutant Emitted:     VOC	2. Total Percent Efficie	ency of Control:
3. Potential Emissions:  0.06 lb/hour  0.24		netically Limited? Yes X No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):	
6. Emission Factor: 0.0055 lb/mm Btu  Reference: AP-42, Table 1.4-2		7. Emissions Method Code: 3
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month From:	Period:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitori  5 years 1	ng Period: 0 years
10. Calculation of Emissions:  See Attached Emissions Inventory		
11. Potential, Fugitive, and Actual Emissions Contribution This accounts for the dryer's contribution process stack.		sions from the

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## 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.

<u>Al</u>	lowable Emissions Allowable Emissions	_ of
1.	Basis for Allowable Emissions Code: <b>NA</b>	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	on of Operating Method):
Al	lowable 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	on 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 (Descripti	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.

Vi	sible Emissions Limitation: Visible Emis	sions Limitation of	_
1.	Visible Emissions Subtype:	2. Basis for Allowable	e Opacity:
	VE03	x Rule	Other
3.	Allowable Opacity: 3%	···	
		Exceptional Conditions:	%
	Maximum Period of Excess Opacity Allo	wed:	min/hour
4.	Method of Compliance: EPA Reference	Method 9	
5.	Visible Emissions Comment:		<del>-</del>
٥.	Visible Emissions Comment.		
	Rule 62-296.603, FAC		
	·		
1			
1			
<u>Vi</u> :	sible Emissions Limitation: Visible Emis	sions Limitation of	
_	sible Emissions Limitation: Visible Emis Visible Emissions Subtype:	sions Limitation of 2. Basis for Allowable	
_	·	<del></del>	
_	·	2. Basis for Allowable	e Opacity:
1.	Visible Emissions Subtype:  Allowable Opacity:	2. Basis for Allowable	e Opacity:  Other
1.	Visible Emissions Subtype:  Allowable Opacity:	2. Basis for Allowable Rule  Exceptional Conditions:	e Opacity:
3.	Visible Emissions Subtype:  Allowable Opacity: Normal Conditions: % I	2. Basis for Allowable Rule  Exceptional Conditions:	e Opacity:  Other
3.	Visible Emissions Subtype:  Allowable Opacity: Normal Conditions: % I Maximum Period of Excess Opacity Allow	2. Basis for Allowable Rule  Exceptional Conditions:	e Opacity:  Other
3.	Visible Emissions Subtype:  Allowable Opacity: Normal Conditions: % I Maximum Period of Excess Opacity Allow Method of Compliance:	2. Basis for Allowable Rule  Exceptional Conditions:	e Opacity:  Other
3.	Visible Emissions Subtype:  Allowable Opacity: Normal Conditions: % I Maximum Period of Excess Opacity Allow	2. Basis for Allowable Rule  Exceptional Conditions:	e Opacity:  Other
3.	Visible Emissions Subtype:  Allowable Opacity: Normal Conditions: % I Maximum Period of Excess Opacity Allow Method of Compliance:	2. Basis for Allowable Rule  Exceptional Conditions:	e Opacity:  Other
3.	Visible Emissions Subtype:  Allowable Opacity: Normal Conditions: % I Maximum Period of Excess Opacity Allow Method of Compliance:	2. Basis for Allowable Rule	e Opacity:  Other
3.	Visible Emissions Subtype:  Allowable Opacity: Normal Conditions: % I Maximum Period of Excess Opacity Allow Method of Compliance:	2. Basis for Allowable Rule	e Opacity:  Other
3.	Visible Emissions Subtype:  Allowable Opacity: Normal Conditions: % I Maximum Period of Excess Opacity Allow Method of Compliance:	2. Basis for Allowable Rule	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.	Parameter Code: EM	2. Pollutant(s): NOX, CO, SO2
3.	CMS Requirement:	Rule X Other
4.	Monitor Information  Manufacturer: <b>TBD</b> Model Number: <b>TBD</b>	Serial Number:
5.	Installation Date: Upon Construction Continuous Monitor Comment:	6. Performance Specification Test Date: NA
	Proposed NOX, CO, and SO2 CEMS on o	combined process stack.
<u>Co</u>	ontinuous Monitoring System: Continuous	Monitor <u>2</u> of <u>2</u>
1.	Parameter Code:  Bag Leak Detection	2. Pollutant(s): PM & PB
3.	CMS Requirement:	Rule Other
4.	Monitor Information Manufacturer: <b>TBD</b> Model Number: <b>TBD</b>	Serial Number:
5.	Installation Date: Upon Construction	6. Performance Specification Test Date: NA
7.	Continuous Monitor Comment:	
	Bag Leak Detection required on Dryer Ba	ghouse per 40 CFR 63 Subpart X.

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### **EMISSIONS UNIT INFORMATION**

Section 1 of 6

#### 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
	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:
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.	•
	Attached, Document ID: Not Applicable

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### I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

#### Additional Requirements for Air Construction Permit Applications

1.	<b>2</b> ,	ules 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.	<ul><li>2. Good Engineering Practice Stack Height And 212.500(4)(f), F.A.C.):</li><li>Attached, Document ID:</li></ul>	
3.	B. Description of Stack Sampling Facilities: (R	equired for proposed new stack sampling facilities
	only)  Attached, Document ID:	X Not Applicable
Ac	Additional Requirements for Title V Air Oper	ration Permit Applications
1.	I. Identification of Applicable Requirement  Attached, Document ID:	s:
2.	<ul><li>Compliance Assurance Monitoring:</li><li>Attached, Document ID:</li></ul>	☐ Not Applicable
3.	Alternative Methods of Operation:  Attached, Document ID:	☐ Not Applicable
4.	Alternative Modes of Operation (Emission Attached, Document ID:	ns Trading):  Not Applicable
Ac	Additional Requirements Comment	

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#### A. GENERAL EMISSIONS UNIT INFORMATION

#### Title V Air Operation Permit Emissions Unit Classification

	permit or FESOP	unit addressed in this E		ion Section is a regulated
		unit addressed in this E	missions Unit Informat	ion Section is an
Er	nissions Unit Desci			
1.	• •	Unit Addressed in this	,	
	single process	sions Unit Information S or production unit, or ac which has at least one d	tivity, which produces	one or more air
	of process or p		vities which has at least	e emissions unit, a group one definable emission
	more process of	or production units and a	ctivities which produce	e emissions unit, one or fugitive emissions only.
	2. Description of	Emissions Unit Address	sed in this Section:	
		Rev	erb Furnace	
3.	Emissions Unit Ide	entification Number:		
4.	Emissions Unit Status Code: C	5. Commence Construction Date: 10/2008	6. Initial Startup Date: 7/2009	7. Emissions Unit Major Group SIC Code: 33
8.	Federal Program A	applicability: (Check al	that apply)	
	☐ Acid Rain Uni	t		
	CAIR Unit	<del></del>		
9.	Package Unit: Manufacturer:		Model Number:	
	. Generator Namepl			
11	. Emissions Unit Co	omment:		
DI	The emissions fro	m this unit are ducted	to the same stack as t	he Feed Dryer and

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#### **EMISSIONS UNIT INFORMATION**

Section 2 of 6

#### **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

9 Modules with 106 bags each = 954 bags total Filter Area = 954 bags x 30.36 sf/bag = 28,963 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 Caustic Usage = 265 gal/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**

Marinery Propaga on Throughout Poter 4	
. Maximum Process or Throughput Rate: 4	0 ton/hr
. Maximum Production Rate:	
. Maximum Heat Input Rate: 23.0 million I	3tu/hr
. Maximum Incineration Rate: pounds/hr	
tons/day	
. Requested Maximum Operating Schedule:	
24 hours	/day 7 days/week
52 weeks	s/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: <b>Process Stack</b>		2.	Emission Point 7	Type Code:
3.	Descriptions of Emission NA				
<ol> <li>ID Numbers or Descriptions of Emission Units with this Emission Point in Common:</li> <li>022 Feed Dryer</li> <li>001 Blast Furniture</li> </ol>					
5.	Discharge Type Code: <b>V</b>	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 <b>45,000</b> dscfm	low Rate:	12. Nonstack Emission Point Height: feet		
13.	Emission Point UTM Coor Zone: East (km): North (km)		14. Emission Point Latitude/Longitude Latitude (DD/MM/SS) Longitude (DD/MM/SS)		
15.	. Emission Point Comment:				
	This stack combines gases m). The Reverb Furnace				

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

### Segment Description and Rate: Segment 1 of 3

1.	Segment Description (Pro-	cess/Fuel Type):					
	Reverberatory Furnace						
į							
Į							
2.	Source Classification Cod	e (SCC):	3. SCC Units:				
	30400402	<b>c</b> (500).	Tons mate		charged		
4.	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity		
	40	262,800			Factor: NA		
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:		
	NA	NA			NA ,		
10.	Segment Comment:						
}							
Se	gment Description and Ra	ite: Segment 2 o	of <u>3</u>				
1.	1. Segment Description (Process/Fuel Type):						

_=						
1.	Segment Description (Pro-	cess/Fuel Type):				
	Natural Gas Combustion					
1						
<u> </u>	0 01 00 0	(0.00)	00011			
2.	Source Classification Cod	e (SCC):	3. SCC Units:			
	10200602		MMCF			
4.	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activity	
	0.023	201.5		••	Factor: NA	
	·····			<u> </u>	<del></del>	
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:	
	NA	NA		ł	1000	
10	Segment Comment:	<u> </u>		<u> </u>		
10.	Segment Comment.					

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

## Segment Description (Process/Fuel Type):

Propane Combustion					
2. Source Classification Cod 10201002	e (SCC):	3. SCC Units: 1000 gallor			
4. Maximum Hourly Rate: 0.251	5. Maximum 2,200			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:			•		
Segment Description and Ra		of			
1. Segment Description (Pro	cess/Fuel Type):				
2. Source Classification Cod	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:			1		

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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				
			-				
		·					

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## 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 Effici	ency of Control:
3. Potential Emissions:  0.71 lb/hour  3.13	,	netically Limited? Yes X No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):	
6. Emission Factor: <b>0.005 gr/dscf</b> Reference: <b>BACT</b>		7. Emissions Method Code:
	8.b. Baseline 24-month	
8.a. Baseline Actual Emissions (if required): tons/year		
<u> </u>		Го:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitor	ng Period:
tons/year		0 years
10. Calculation of Emissions: See Attached Emissions Inventory		
11. Potential, Fugitive, and Actual Emissions Control This accounts for the Reverb Furnace's of the Process Stack.		PM emissions from

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## 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 3

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date Emissions: NA	of Allowable
3.	Allowable Emissions and Units: 0.005 gr/dscf	4.	Equivalent Allowable <b>0.71</b> lb/hour	Emissions: 3.13 tons/year
5.	Method of Compliance: Stack Test and Bag Leak Detection System	1		
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: <b>NA</b>	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	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 Allowabl 4.28 lb/hour	e Emissions: 18.75 tons/year
5.	Method of Compliance: Stack Test and Bag Leak Detection System	m		
6.	Allowable Emissions Comment (Description 62-296.712 FAC	n 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

Pollutant Emitted:     PB	2. Total Perce <b>99.9</b>	ent Efficie	ency of Control:
3. Potential Emissions:		•	netically Limited?
<b>0.019</b> lb/hour <b>0.082</b>	2 tons/year		es x No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
			7. Emissions
6. Emission Factor: <b>0.3 mg/dscm</b>			Method Code:
Reference: BACT			0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:
tons/year	From:	T	o:
9.a. Projected Actual Emissions (if required):	9.b. Projected	Monitori	ng Period:
tons/year		rs 🔲 1	0 years
10. Calculation of Emissions:  See Attached Emissions Inventory  11. Potential, Fugitive, and Actual Emissions Comments	omment:		
This accounts for the Reverb Furnace's of the Process Stack.		the total	lead emissions from

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

#### Allowable Emissions 3 of 3

1.	Basis for Allowable Emissions Code: <b>RULE</b>	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: <b>6.25</b> tons/year
5.	Method of Compliance: Stack Test and Bag Leak Detection Syste	m		
6.	Allowable Emissions Comment (Description 62-296.603 FAC	n 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

Pollutant Emitted:     NOX	2. Total Percent Effici	ency of Control:		
3. Potential Emissions: 24.00 lb/hour 105.12	1 7	hetically Limited? Yes X No		
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):			
6. Emission Factor: <b>0.60 lb/ton of feed</b> Reference: <b>BACT</b>		7. Emissions Method Code: 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:  See Attached Emissions Inventory				
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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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

1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA	
3.	Allowable Emissions and Units:  0.60 lb/ton	4. Equivalent Allowable Emissions: 24.00 lb/hour 105.12 tons/year	
5.	Method of Compliance: Continuous Emissions Monitoring System	m	
6.	6. Allowable Emissions Comment (Description of Operating Method):  Proposed BACT limit		
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.	5. Method of Compliance:		
6.	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	n of Operating Method):	

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## POLLUTANT DETAIL INFORMATION 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. Pollutant Emitted: CO	2. Total Percent Efficient	ency of Control:	
3. Potential Emissions: 1.93 lb/hour 8.46	•	netically Limited? Yes X 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		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):	9.b. Projected Monitori	ng Period:	
tons/year	•	•	

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## 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.

Allowable Emissions Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: <b>ESCPSD</b>	2.	Future Effective Date of Allowable Emissions: <b>NA</b>	
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	n		
	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_	<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.	5. Method of Compliance:			
6.	6. Allowable Emissions Comment (Description of Operating Method):			
Al	lowable Emissions Allowable Emissions	of_	<del>_</del>	
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 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

d?		
ode:		
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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POLLUTANT DETAIL INFORMATION
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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 1 of 1

Design for Allowable Emissions Code: 2 Future Effective Date of Allowable

l .	CPSD	2.	Emissions: NA
1	owable Emissions and Units: 3.9 lb/hr	4.	Equivalent Allowable Emissions: 163.9 lb/hour 717.9 tons/year
	hod of Compliance: ntinuous Emissions Monitoring System	1	
	owable Emissions Comment (Description		
	s emission limit applies to the combine e, and Blast Furnace.	d en	nissions from the Feed Dryer, Reverb
rumac	e, and blast Furnace.		
Allowa	ble Emissions Allowable Emissions	of_	_
1. Basi	is for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:
3. Allo	wable Emissions and Units:	4.	Equivalent Allowable Emissions:
<u> </u>			lb/hour tons/year
5. Met	5. Method of Compliance:		
6. Allo	6. Allowable Emissions Comment (Description of Operating Method):		
<u>Allowal</u>	ble Emissions Allowable Emissions	of_	<u> </u>
1. Basi	s for Allowable Emissions Code:	2.	Future Effective Date of Allowable Emissions:
3. Allo	wable Emissions and Units:	4.	Equivalent Allowable Emissions: lb/hour tons/year
5. Met	hod of Compliance:		
6. Allowable Emissions Comment (Description of Operating Method):			

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## POLLUTANT DETAIL INFORMATION Page 11 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

Pollutant Emitted:     VOC	2. Total Percent Efficient 80	ency of Control:
3. Potential Emissions: 1.67 lb/hour 7.31		netically Limited? Yes x 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:
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:
tons/year		Γο:
<u> </u>		
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitori	ng Period: 0 years
10. Calculation of Emissions:  See Attached Emissions Inventory		
11. Potential, Fugitive, and Actual Emissions Comment:  This accounts for the Reverb 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

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions: <b>NA</b>
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	· Mo	nitoring
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):		
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 (	perating 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.	Vicible Emissions Cultures	2. Basis for Allowable	Omanitari		
1.	Visible Emissions Subtype:		•		
	VE03	x Rule	Other		
3.	Allowable Opacity: 3%	<del> </del>			
	Normal Conditions: % Ex	ceptional Conditions:	%		
	Maximum Period of Excess Opacity Allowe		min/hour		
4.	Method of Compliance: EPA Reference M				
7.	Wednesd of Comphance. Et A Reference is	iction y			
5.	Visible Emissions Comment:				
].	Visible Limssions Comment.				
	Rule 62-296.603, FAC				
	Ruic 02-270.003, FAC				
1					
<u> </u>					
<u>Vi</u>	<u>Visible Emissions Limitation:</u> Visible Emissions Limitation 2 of 2				
1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:		
1	VE20	x Rule	Other		
3.	Allowable Opacity:		<del></del>		
١٠,	•	ceptional Conditions:	%		
ĺ			min/hour		
ļ	Maximum Period of Excess Opacity Allowe				
4.	Method of Compliance: <b>EPA Reference</b> M	lethod 9			
}					
<u> </u>					
5.	Visible Emissions Comment:				
ł					
Ì	40 CFR 60 Subpart L				
1					
1					
1					

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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.	Installation Date: Upon Construction	6. Performance Specification Test Date: NA
7.	Continuous Monitor Comment:	ombined aveces steels
	Proposed NOX, CO, & SO2 CEMS on co	minimed process stack
Co	ontinuous Monitoring System: Continuous	Monitor <u>2</u> of <u>3</u>
1.	Parameter Code:  Bag Leak Detection	2. Pollutant(s): PM & PB
3.	CMS Requirement:	x Rule  Other
4.	Monitor Information Manufacturer: <b>TBD</b>	
	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	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):			
	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:				
	Afterburner temperature monitor require	ed by 40 CFR 63 Subpart X.			
	7	,			
	Continuous Monitoring System: Continuous Monitor of				
	Parameter Code:	2. Pollutant(s):			
1.	Farameter Code.	2. Foliulani(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:				
1					

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### EMISSIONS UNIT INFORMATION

Section 2 of 6

#### 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:
	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: \times Not Applicable

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### I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

#### Additional Requirements for Air Construction Permit Applications

1.	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:	☐ Not Applicable			
2.	Good Engineering Practice Stack Height A	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: 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 Requireme	ents:			
<u> </u>	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:	☐ Not Applicable			
Additional Requirements Comment					

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#### A. GENERAL EMISSIONS UNIT INFORMATION

#### **Title V Air Operation Permit Emissions Unit Classification**

or renewal Title V	. 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.)						
emissions unit.	unit addressed in this En		on Section is a regulated on Section is an				
Emissions Unit Description and Status							
1. Type of Emissions	Unit Addressed in this	Section: (Check one)					
single process of pollutants and v	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).						
of process or pr	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.						
3. Description of	3. Description of Emissions Unit Addressed in this Section:						
Blast Furnace							
3. Emissions Unit Ide	ntification Number: 00	1					
4. Emissions Unit Status Code: A	5. Commence Construction Date: 10/2009	6. Initial Startup Date: Unknown	7. Emissions Unit Major Group SIC Code: 33				
8. Federal Program A	pplicability: (Check all	that apply)					
Acid Rain Unit	☐ Acid Rain Unit						
CAIR Unit							
9. Package Unit: Manufacturer:		Model Number:					
10. Generator Nameplate Rating: MW							
11. Emissions Unit Comment:  The emissions from this unit are ducted to the same stack as the Feed Dryer and Reverb Furnace.							

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### **EMISSIONS UNIT INFORMATION**

Section 3 of 6

#### **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

9 Modules with 106 bags each = 954 bags total Filter Area = 954 bags x 30.36 sf/bag = 28,963 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 Caustic Usage = 264 gal/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:	
İ		

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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	2. Emission Point	Гуре Code:	
	Flow Diagram: Process S	Stack	2	•	
3.	Descriptions of Emission	Points Comprising	g this Emissions Unit	for VE Tracking:	
4.	ID Numbers or Descriptio 022 Feed Dryer 023 Reverb Furnace	ns of Emission U	nits with this Emission	n Point in Common:	
5.	V 130 feet 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 <b>45,000</b> dscfm	low Rate:	12. Nonstack Emissi feet	on Point Height:	
13.	. Emission Point UTM Coo	rdinates		Latitude/Longitude	
	Zone: East (km):		Latitude (DD/M)	,	
<u> </u>	North (km)		Longitude (DD/I	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 11,650 scfm (50%) of the furnace gases.					

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

Segment Description and Rate: Segment 1 of 1

1.	Segment Description (Proc Blast Furnace	cess/	Fuel Type):			
2.	Source Classification Code	e (SO	CC):	3. SCC Units:		
	30400403			Tons mate		
4.	Maximum Hourly Rate: 7.5	5.	Maximum <i>A</i> <b>65,700</b>	Annual Rate:	6.	Estimated Annual Activity Factor: <b>NA</b>
7.	Maximum % Sulfur: NA	8.	Maximum <sup>o</sup> NA	% Ash:	9.	Million Btu per SCC Unit: NA
10	Segment Comment:					
	_					
Se	gment Description and Ra	te:	Segment	of		
1.	Segment Description (Proc	cess/	Fuel Type):			
			<b>71</b> /			
2.	Source Classification Code	e (SC	CC):	3. SCC Units:		· · · · · · · · · · · · · · · · · · ·
		,	,			
4.	Maximum Hourly Rate:	5.	Maximum A	Annual Rate:	6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8.	Maximum <sup>6</sup>	% Ash:	9.	Million Btu per SCC Unit:
10	Segment Comment:	L				
10.	oogment Comment.					

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## EMISSIONS UNIT INFORMATION Section 3 of 6

### 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	016	201100 0000	EL EL
PB	016		EL
NOX			EL
CO	112		EL
SO2	130		EL
VOC	112		EL
			i 

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## 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 Ef	ficiency of Control:		
3. Potential Emissions:  0.71 lb/hour  3.13	4. S tons/year	ynthetically Limited?  Yes X No		
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):			
6. Emission Factor: 0.005 gr/dscf		7. Emissions Method Code:		
Reference: BACT				
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-mo	onth Period:		
tons/year	From:	To:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Mon	itoring Period:		
tons/year	5 years	10 years		
10. Calculation of Emissions: See Attached Emissions Inventory				
11. Potential, Fugitive, and Actual Emissions Comment:  This accounts for the Blast Furnace's contribution to the total PM emissions from the Process Stack.				

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## 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 3

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date Emissions: NA	e of Allowable	
3.	Allowable Emissions and Units: 0.005 gr/dscf	4.	Equivalent Allowable 0.71 lb/hour	e Emissions: 3.13 tons/year	
5.	Method of Compliance: Stack Test and Bag Leak Detection System	em			
6.	Allowable Emissions Comment (Description Proposed BACT limit	n 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	n		
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 Emissions:	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.	5. Method of Compliance: Stack Test and Bag Leak Detection System				
6.	Allowable Emissions Comment (Description 62-296.712 FAC	n 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

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: <b>0.3 mg/dscm</b>			7. Emissions Method Code:
Reference: BACT			0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:
tons/year	From:	Γ	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:  See Attached Emissions Inventory  11. Potential, Fugitive, and Actual Emissions Control This accounts for the Blast Furnace's control Process Stack.		ne total les	ad 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 Emissions: <b>NA</b>	Allowable
3.	Allowable Emissions and Units:  0.3 mg/dscm	4.	Equivalent Allowable Er <b>0.019</b> lb/hour	missions: 0.083 tons/year
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	2.	Future Effective Date Emissions: <b>NA</b>	e of Allowable
3.	Allowable Emissions and Units:  2 mg/dscm	4.	Equivalent Allowable 0.13 lb/hour	e Emissions: <b>0.55</b> tons/year
5.	Method of Compliance: Stack Test and Bag Leak Detection Systematics  Sta	em		
6.	Allowable Emissions Comment (Descriptio NESHAP – 40 CFR 63 Subpart X	n of (	Operating Method):	

### Allowable Emissions 3 of 3

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

Pollutant Emitted:     NOX	2. Total Percent Efficient	ency of Control:
3. Potential Emissions:	4. Syntl	netically Limited?
<b>3.00</b> lb/hour 13.14	tons/year	es x No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):	
6. Emission Factor: 0.40 lb/ton		7. Emissions
Reference: BACT		Method Code: 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 Control This accounts for the Blast Furnace's control the Process Stack.		Ox emissions from

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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

1.	Basis for Allowable Emissions Code: OTHER	Future Effective Date of Allowable     Emissions: NA
3.	Allowable Emissions and Units: <b>0.40 lb/ton</b>	4. Equivalent Allowable Emissions: 3.00 lb/hour 13.14 tons/year
5.	Method of Compliance: Continuous Emissions Monitoring System	m
6.	Allowable Emissions Comment (Description Proposed BACT Limit	n of Operating Method):
<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.	Method of Compliance:	
6.	Allowable Emissions Comment (Description	n of Operating Method):
Al	lowable Emissions Allowable Emissions	_ of
1.	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	n of Operating Method):

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## POLLUTANT DETAIL INFORMATION 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. Pollutant Emitted: CO	2. Total Percent Efficient	ency of Control:
3. Potential Emissions: 203.7 lb/hour 892.2	'	netically Limited? Yes 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	_	7. Emissions Method Code: 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	5 years 1	0 years
tons/year		
11. Potential, Fugitive, and Actual Emissions Con This accounts for the Blast Furnace's con Process Stack.		D emissions from the

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## 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.

Allowable Emissions 1 of 1

1.	Basis for Allowable Emissions Code: <b>ESCPSD</b>	2.	Future Effective Date of Allowable Emissions: NA	
3.	Allowable Emissions and Units: <b>204.7 lb/hr</b>	4.	Equivalent Allowable Emissions: 204.7 lb/hour 896.5 tons/year	
5.	Method of Compliance: Continuous Emissions Monitoring System	1		
	<ol> <li>Allowable Emissions Comment (Description of Operating Method):         This limit applies to the combined emissions from the Feed Dryer, Reverb Furnace,         and Blast Furnace.     </li> </ol>			
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	
	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	
	Method of Compliance:			
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.	4. Synthetically Limited?  1 tons/year
5. Range of Estimated Fugitive Emissions (a to tons/year	
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
````	

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## 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 Allowable Emissions 1 of 1

1 Basis for Allowable Emissions Code: 2 Future Effective Data of Allowable Emissions Code: 3 Future Effective Data of Allowable Emissions Code: 3 Future Effective Data of Allowable Emissions Data of Allowable Emissi

1.	ESCPSD	2.	Emissions: NA	
3.	Allowable Emissions and Units: 163.9 lb/hr	4.	Equivalent Allowable Emissions:  163.9 lb/hour 717.9 tons/year	
5.	Method of Compliance: Continuous Emissions Monitoring System	1		
Fu	Allowable Emissions Comment (Description This emission limit applies to the combine trnace, and Blast Furnace.	d en		
Al	<b>lowable Emissions</b> 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	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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## POLLUTANT DETAIL INFORMATION Page 11 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

Pollutant Emitted:     VOC	2. Total Percent Efficie	ency of Control:
3. Potential Emissions:	4. Synth	netically Limited?
<b>1.40</b> lb/hour <b>6.15</b>	tons/year x	Yes No
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable):	
6. Emission Factor: 20 ppmv @ 4% CO2		7. Emissions Method Code:
Reference: NESHAP – 40 CFR 63 Subpart X		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):	9.b. Projected Monitori	ng Period:
tons/year		0 years
10. Calculation of Emissions:  See Attached Emissions Inventory  11. Potential, Fugitive, and Actual Emissions Comments	omment:	
This accounts for the Blast Furnace's couthe Process Stack.		OC emissions from

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## 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

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:  1.40 lb/hour  6.15 tons/year
5.	Method of Compliance: Stack Test and Afterburner Temperature	: Mo	onitoring
6.	Allowable Emissions Comment (Description NESHAP – 40 CFR 63 Subpart X	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):
Al	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.	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 1

1. Visib	le Emissions Subtype:	2. Basis for Allowable	Opacity:
VE0	3	x Rule	Other
	vable Opacity: 3%		
t .		exceptional Conditions:	%
Maxi	mum Period of Excess Opacity Allov	ved:	min/hour
4. Meth	od of Compliance: <b>EPA Reference</b> I	Method 9	
4. V	isible Emissions Comment:		
ļ <sup>Ţ.</sup> V	isiole Limissions Comment.		
R	ule 62-296.603, FAC		
	,		
		<del></del>	
<u>Visible E</u>	missions Limitation: Visible Emis	sions Limitation of	_
1. Visib	le Emissions Subtype:	2. Basis for Allowable	Opacity:
		☐ Rule	Other
I	vable Opacity:		<del></del>
		exceptional Conditions:	%
Maxi	mum Period of Excess Opacity Allov	ved:	min/hour
4. Meth	od of Compliance:		
5. Visib	le Emissions Comment:		· · · · · · · · · · · · · · · · · · ·
J. VISIO	te Emissions Comment.		
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. Installation Date:	6. Performance Specification Test Date:
Upon Construction	NA
7. Continuous Monitor Comment:	
Proposed NOX, CO, and XO@ CEMS o	n combined process stack.
Continuous Monitoring System: Continuou	s Monitor 2 of 3
1. Parameter Code:	2. Pollutant(s):
Bag Leak Detection	PM & PB
3. CMS Requirement:	x 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 Furnac	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):
	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: <b>NA</b>
7.	Continuous Monitor Comment:	
	Afterburner temperature monitor require	d by 40 CFR 63 Subpart X
	Antiburner temperature momitor require	u by 40 CFR 05 Subpart 28.
	entinuous Monitoring Systems Continuous	Maniton of
	entinuous Monitoring System: Continuous	<del></del>
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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### **EMISSIONS UNIT INFORMATION**

Section 3 of 6

### 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:
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.	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:	_ Not Applicable
2.		Analysis (Rules 62-212.400(4)(d) and 62-
1	212.500(4)(f), F.A.C.):	
	Attached, Document ID:	
3.	Description of Stack Sampling Facilities: only)	(Required for proposed new stack sampling facilities
	Attached, Document ID:	_ X Not Applicable
Ac	Iditional Requirements for Title V Air C	Operation Permit Applications
1.	Identification of Applicable Requirem  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 (Emi	ssions Trading):
	Attached, Document ID:	☐ Not Applicable
<u>A</u> c	Iditional Requirements Comment	

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### 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.						
		unit addressed in this E	missions Unit Informati	ion Section is an			
Er	nissions Unit Desci	ription and Status					
1.	Type of Emissions	S Unit Addressed in this	Section: (Check one)				
	single process pollutants and	s Unit Information Secti or production unit, or ac which has at least one d	ctivity, which produces efinable emission point	one or more air (stack or vent).			
	group of proce	sions Unit Information S ess or production units ar (stack or vent) but may	nd activities which has a	at least one definable			
		s Unit Information Section production units and a		e emissions unit, one or e fugitive emissions only.			
2.	Description of Em	issions Unit Addressed	in this Section:				
		ng Kettles & Furnace l	Fugitives (Hygiene Ver	ntilation)			
3.	Emissions Unit Ide	entification Number:					
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit			
	Status Code: C	Construction Date: 10/2009	Date: Unknown	Major Group SIC Code: 33			
8.	Federal Program A	Applicability: (Check all	that apply)	<del></del>			
	Acid Rain Unit	t					
	CAIR Unit	_					
9.	Package Unit:						
	Manufacturer:	<del></del>	Model Number:	· · · · · · · · · · · · · · · · · · ·			
—	. Generator Namepla	<u>-</u>					
	11. Emissions Unit Comment:  This unit includes process emissions from the Refining Kettles and Fugitive emissions from the Reverb Furnace and Blast Furnace.						

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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:	
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:	
	·	

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## ${\bf C. \ EMISSION \ POINT \ (STACK/VENT) \ INFORMATION } \\$

(Optional for unregulated emissions units.)

### **Emission Point Description and Type**

1.	l. Identification of Point on Plot Plan or Flow Diagram: <b>Hygiene Stack</b>		2. Emission Point 7	Type Code:			
3.	3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:						
	NA NA						
ŀ							
4.	ID Numbers or Descriptio		nits with this Emission	n Point in Common:			
	011,023 (fugitives), and (	or (lugitives)					
5.	Discharge Type Code:	6. Stack Height		7. Exit Diameter:			
). 	V	130 feet		5.0 feet			
8.	Exit Temperature:		netric Flow Rate:	10. Water Vapor:			
11	150 °F	72,000 acfm	12 M	Negligible%			
11. 	. Maximum Dry Standard F <b>62,500</b> dscfm	low Kate:	12. Nonstack Emission Point Height: feet				
13.	Emission Point UTM Coo	rdinates	14. Emission Point Latitude/Longitude				
	Zone: East (km):		Latitude (DD/MM/SS)				
	37 1 (1 )						
1.5	North (km)		Longitude (DD/I	VIIVI/88) —————————			
15.	North (km) Emission Point Comment:		Longitude (DD/I	MIM/55)			
15.			Longitude (DD/I	MIM/55)			
15.			Longitude (DD/I	MIM/55)			
15.			Longitude (DD/I	MIM/55)			
15.			Longitude (DD/I	MIM/55)			
15.			Longitude (DD/I	MIM/55)			
15.			Longitude (DD/I	MIM/55)			
15.			Longitude (DD/I	MIM/55)			

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

# Segment Description and Rate: Segment 1 of 1 Segment Description (Process/Fuel Type):

1. Segment Description (1 focess/1 def 1 ype).						
Lead Refining						
2. Source Classification Coo 30400426	de (SCC):	3. SCC Units Tons of le		refined		
4. Maximum Hourly Rate: 20	5. Maximum 175,000	Annual Rate:	6.	Estimated Annual Activity Factor: <b>NA</b>		
7. Maximum % Sulfur: NA	8. Maximum NA	% Ash:	9.	Million Btu per SCC Unit: NA		
10. Segment Comment:						
Segment Description and R	ate: Segment _	of				
1. Segment Description (Pro	ocess/Fuel Type)	:				
2. Source Classification Coo	de (SCC):	3. SCC Units	s:			
4. Maximum Hourly Rate:	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:		<del></del>				

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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	017		EL				
PB	017		EL				
NOX			EL				
CO			EL				
SO2			EL				
VOC			EL				

## 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  2. Total Percent Efficiency of Cor 99.9			ency of Control:
3. Potential Emissions: 2.68 lb/hour 11.74	tons/year	_	netically Limited? Yes X No
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):		
6. Emission Factor: <b>0.005 gr/dscf</b> Reference: <b>BACT</b>			7. Emissions Method Code:  0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline	24-month	Period:
tons/year	From:	T	Co:
9.a. Projected Actual Emissions (if required):	9.b. Projected	l Monitori	ng Period:
tons/year		ırs 🔲 1	0 years
10. Calculation of Emissions:  See Attached Emissions Inventory  11. Potential, Fugitive, and Actual Emissions Co	omment:		
1. 1 Somman, 1 Gom . e, and 1 retain Emissions Of			

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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.

<b>Allowable Emissions</b>	Allowable Emissions	1	of	2

1.	Basis for Allowable Emissions Code: OTHER	2.	2. Future Effective Date of Allowable Emissions: <b>NA</b>			
3.	Allowable Emissions and Units: 0.005 gr/dscf	4. Equivalent Allowable Emissions:  2.68 lb/hour 11.74 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 2

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

### Allowable Emissions \_\_ of \_\_\_

1. Basis f	or Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:		
3. Allowa	able Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year		
5. Method	d of Compliance:			
6. Allowa	able Emissions Comment (Description	of (	Operating Method):	

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## 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: PB	2. Total Percent Efficiency of Control: 99.9			
3. Potential Emissions:  0.05 lb/hour  0.21	•	netically Limited? Yes X No		
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 0.2 mg/dscm		7. Emissions Method Code:		
Reference: Proposed BACT Limit		<u></u>		
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:		
tons/year	From:	Co:		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:		
tons/year		0 years		
10. Calculation of Emissions:  See Attached Emissions Inventory  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.	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: <b>RULE</b>	2.	2. Future Effective Date of Allowable Emissions: NA	
3.	Allowable Emissions and Units:  2 mg/dscm	4.	Equivalent Allowabl <b>0.46</b> lb/hour	e Emissions: <b>2.06</b> tons/year
5.	Method of Compliance: Stack Test and Bag Leak Detection Sys	tem		
6.	Allowable Emissions Comment (Description 40 CFR 63 Subpart X	on of	Operating Method):	

#### 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: 4. Equ 0.0011 gr/dscf*		Equivalent Allowable Emissions: 0.59 lb/hour 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:     NOX	2. Total Percent Efficie	ency of Control:			
3. Potential Emissions: 14.33 lb/hour 62.76		netically Limited? Yes X No			
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):				
6. Emission Factor: 0.24 lb/lb niter  Reference: Derived from stack tests		7. Emissions Method Code: 5			
<u> </u>					
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:			
tons/year	From:	Co:			
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:			
tons/year	5 years 1	0 years			
tons/year					
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

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Allowable Emissions: NA		
3.	Allowable Emissions and Units:  0.24 lb/lb niter	4.	Equivalent Allowable Emissions:  14.33 lb/hour 62.76 tons/year		
5.	Method of Compliance: Stack Testing	1	14.33 10/110til 02.70 tons/year		
6.	Allowable Emissions Comment (Description Proposed BACT	of	Operating Method):		
<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.	6. Allowable Emissions Comment (Description of Operating Method):				
Al	lowable Emissions Allowable Emissions	of_	<del>_</del>		
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 7 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: SO2	2. Total Percent Efficie	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	s applicable):				
<ol> <li>Emission Factor: 0.133 lb/lb sulfur + 2% 1</li> <li>Reference: Derived from stack tests</li> </ol>	furnace emissions	7. Emissions Method Code: 5			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Dariod			
` *					
tons/year		o:			
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:			
tons/year		0 years			
10. Calculation of Emissions:  See Attached Emissions Inventory					
11. Potential, Fugitive, and Actual Emissions Co	omment:				

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## POLLUTANT DETAIL INFORMATION Page 8 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: <b>ESCPSD</b>	2. Future Effective Date of Allowable Emissions: <b>NA</b>			
3.	Allowable Emissions and Units: 38.34 lb/hr	4. Equivalent Allowable Emissions: 38.34 lb/hour 167.93 tons/year			
5.	Method of Compliance: Stack Testing				
6.	Allowable Emissions Comment (Description of Operating Method):  PSD Avoidance Limit				
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. 6.	Method of Compliance:  Allowable Emissions Comment (Description	of Operating Method):			
	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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#### 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 Allowabl	e Opacity:
	VE03	x Rule	Other
	V E03		
3.	Allowable Opacity:		
ļ	Normal Conditions: 3 %	Exceptional Conditions:	%
	Maximum Period of Excess Opacity Allo	•	min/hour
	<del></del>	<del></del>	
	5. Method of Compliance:		
	EPA Reference Method 9		
	6. Visible Emissions Comment:		
	o. Visiole Emissions Comment.		
	D 1 (4 40) (04 E) C		
	Rule 62-296.603.FAC		
1			
1			
<b>17</b> :	sible Emissions Limitation: Visible Emi	esions Limitation of	
	<del></del>		<del>_</del>
1.	Visible Emissions Subtype:	2. Basis for Allowabl	e Opacity:
	VE10	X Rule	Other
<u> </u>	<del>-</del>		
3.	Allowable Opacity:		
	Normal Conditions: 10 %	Exceptional Conditions:	%
	Maximum Period of Excess Opacity Allo	owed:	min/hour
1		<del></del>	
4.	Method of Compliance:		
}	EPA Reference Method 9		
5.	Visible Emissions Comment:		
Ì	40 CFR 60 Subpart L		
	40 CFK 00 Subpart L		
1			

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## EMISSIONS UNIT INFORMATION Section 4 of 6

#### 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:	2. Pollutant(s):
	Bag Leak Detection	PM & PB
3.	CMS Requirement:	Rule Other
4.	Monitor Information	
	Manufacturer: TBD	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
	Prior to startup	NA
	7. Continuous Monitor Comment:	
	Bag Leak Detection required by 40 Cl	FR 63 Subpart X
L		
<u>Co</u>	ontinuous 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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#### **EMISSIONS UNIT INFORMATION**

Section 4 of 6

#### 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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## EMISSIONS UNIT INFORMATION Section 4 of 6

#### I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

#### Additional Requirements for Air Construction Permit Applications

1.					
	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	Required for proposed new stack sampling facilities			
	Attached, Document ID:	X Not Applicable			
<u>Ac</u>	Iditional Requirements for Title V Air Ope	eration Permit Applications			
1.	Identification of Applicable Requirement Attached, Document ID:	nts:			
2.	Compliance Assurance Monitoring:  Attached, Document ID:	☐ Not Applicable			
3.	Alternative Methods of Operation:  Attached, Document ID:	☐ Not Applicable			
4.	Alternative Modes of Operation (Emissi Attached, Document ID:	ons Trading):  Not Applicable			
Ad	Iditional Requirements Comment				

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#### A. GENERAL EMISSIONS UNIT INFORMATION

#### <u>Title V Air</u> 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.					
		unit addressed in this En	missions Unit Informati	on Section is an		
En	nissions Unit Desci	ription and Status				
1.	Type of Emissions	s Unit Addressed in this	Section: (Check one)			
	single process	s Unit Information Section or production unit, or ac which has at least one do	ctivity, which produces of	one or more air		
	of process or p	s Unit Information Section of Section of Section units and active vent) but may also produced the section of th	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.	Description of Em	issions Unit Addressed i	in this Section:			
			Ventilation 1			
3.	Emissions Unit Ide	entification Number:				
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit		
	Status Code:	Construction	Date: Unknown	Major Group		
	C	Date: 10/2009		SIC Code:		
8.	Federal Program A	Applicability: (Check all	that annly)	30		
	Acid Rain Unit	• • •	t titut appig)			
	CAIR Unit	•				
9.	Package Unit:					
	Manufacturer:		Model Number:			
10.	. Generator Namepl	ate Rating: MW				
11.	. Emissions Unit Co					
fuc		it consists of general bu om a variety of sources.				
	a Torit cartridge of		. The TWI and lead cm	ission are controlled		
"	Jgg.					

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#### EMISSIONS UNIT INFORMATION Section 5 of 6

Emissions Unit Control Equipment/Method:	
1. Control Equipment/Method Description:	
PM and lead from the building are controlled by a cartridge collector.	
Torit Cartridge Collector Specifications:	
195,000 acfm	
195,000 dscfm	
Ambient Temperature	
Negligible Moisture	
3 Modules with 96 cartridges each = 288 bags total Pulse-jet cleaning system	
2. Control Device or Method Code: 018	
2. Control Device of Method Code. Vio	

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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: NA	
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:	
	hours/day	days/week
	weeks/year	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 Flow Diagram: Torit Sta		2. Emission Point 7	Type Code:		
3.	Descriptions of Emission		g this Emissions Unit	for VE Tracking:		
	NA .					
4.	ID Numbers or Description NA	ns of Emission U	nits with this Emission	n Point in Common:		
5.	Discharge Type Code: V	6. Stack Height 97 feet	••	7. Exit Diameter: 8.0 feet		
8.	Exit Temperature: Ambient °F	9. Actual Volum 195,000 acfm	metric Flow Rate:	10. Water Vapor: Negligible %		
11.	Maximum Dry Standard F 195,000 dscfm	low Rate:	12. Nonstack Emission Point Height:  NA feet			
13.	13. Emission Point UTM Coordinates Zone: East (km): North (km):		14. Emission Point Latitude/Longitude Latitude (DD/MM/SS) Longitude (DD/MM/SS)			
15.	15. Emission Point Comment:					
		_				

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

Segment Description and Rate: Segment \_\_ of \_\_

1.	. Segment Description (Process/Fuel Type):				
	NA				
2.	Source Classification Cod	le (SCC):	3. SCC Units	•	
<del>1</del> .	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activit
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Uni
0	. Segment Comment:			J	
S0.	gmant Description and De	ato: Sogment			
1.	gment Description and Range Segment Description (Pro	<del></del>	<u> </u>		
	(° 10				
_			La godini		·
2.	Source Classification Cod	e (SCC):	3. SCC Units:	•	
4.	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6.	Estimated Annual Activit Factor:
7.	Maximum % Sulfur:	8. Maximum % Ash:		9.	Million Btu per SCC Uni
10.	Segment Comment:				
10.					
					·

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## EMISSIONS UNIT INFORMATION Section 5 of 6

#### 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
			Device Code	
PN	//PM10/PM2.5	018		EL
PB		018		EL
	<u> </u>			
-				-
_				
	<del></del>			
			<del>-</del> -	
-				
	<del></del>			
-				
-				

### POLLUTANT DETAIL INFORMATION Page 1 of 4

## 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:	<u>-</u> -	nthetically Limited?			
8.36 lb/hour 36.60	tons/year x	Yes No			
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year					
6. Emission Factor: 0.005 gr/dscf		7. Emissions			
Reference: Proposed BACT		Method Code:			
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-mon	th Period:			
tons/year	From:	To:			
9.a. Projected Actual Emissions (if required):	9.b. Projected Monito	oring Period:			
tons/year	5 years 10 years				
10. Calculation of Emissions:					
See Attached Emissions Inventory					
11 Detential Evolution and Actual Emissions Comments					
11. Potential, Fugitive, and Actual Emissions Comment:					

POLLUTANT DETAIL INFORMATION Page 2 of 4

## 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 $\underline{2}$

1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Allowable Emissions: <b>NA</b>		
3.	Allowable Emissions and Units: 0.005 gr/dscf	4.	4. Equivalent Allowable Emissions:  8.36 lb/hour  36.60 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 2

1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions: <b>NA</b>		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:		
	0.03 gr/dscf		<b>50.14</b> lb/hour <b>219.63</b> ton:		
5.	Method of Compliance:				
	Stack Test and Bag Leak Detection System	n		•	
6.	Allowable Emissions Comment (Description	of (	Operating Method):		
	62-296.712 FAC				

#### 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 (Descript	tion of Operating Method):

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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: PB	2. Total Percent Efficience 99.9	ency of Control:		
3. Potential Emissions:  0.037 lb/hour  0.160		netically Limited? Yes		
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):			
6. Emission Factor: 0.05 mg/dscm		7. Emissions Method Code:		
Reference: Proposed BACT Limit		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:		-		
See Attached Emissions Inventory				
11. Potential, Fugitive, and Actual Emissions Comment:				

POLLUTANT DETAIL INFORMATION
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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 2

$\overline{}$					
1.	Basis for Allowable Emissions Code: <b>OTHER</b>	2.	Future Effective Date of Allowable Emissions: NA		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:		
	0.05 mg/dscm		<b>0.037</b> lb/hour <b>0.160</b> tons/year		
5.	Method of Compliance: Stack Testing and Bag Leak Detection	·			
6.	6. Allowable Emissions Comment (Description of Operating Method): Proposed BACT Limit				
Al	<b>lowable Emissions</b> Allowable Emissions <b>2</b> o	f <u>2</u>			
1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions: <b>NA</b>		
3.	Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:		
	2 mg/dscm		<b>1.46</b> lb/hour <b>6.40</b> tons/year		
5.	Method of Compliance: Same as above				
6.	Allowable Emissions Comment (Description 40 CFR 63 Subpart X	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.	6. Allowable Emissions Comment (Description of Operating Method):				

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## EMISSIONS UNIT INFORMATION Section 5 of 6

#### 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 1

1.	Visible Emissions Subtype: VE03	2. Basis for Allowable x Rule	e Opacity:  Other
3.	1 2	xceptional Conditions:	% min/hour
4.	Method of Compliance: EPA Reference Method 9		
5.	Visible Emissions Comment:		
	Rule 62-296.603, FAC		
<u>Vi</u>	sible Emissions Limitation: Visible Emiss	ions Limitation of	<del>-</del>
1			
1.	Visible Emissions Subtype:	2. Basis for Allowable Rule	Opacity:  Other
l	Allowable Opacity:	Rule Rule xceptional Conditions:	•
3.	Allowable Opacity: Normal Conditions: % Ex	Rule Rule xceptional Conditions:	Other %
3.	Allowable Opacity: Normal Conditions: % Ex Maximum Period of Excess Opacity Allow	Rule Rule xceptional Conditions:	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 1

1.	Parameter Code: Bag Leak Detection	2. Pollutant(s): PM & PB
3.	CMS Requirement:	x Rule Other
4.	Monitor Information Manufacturer: <b>TBD</b>	
	Model Number:	Serial Number:
5.	Installation Date: Prior to startup	<ol> <li>Performance Specification Test Date:</li> <li>NA</li> </ol>
7.	Continuous Monitor Comment:	
	Required by 40 CFR 63 Subpart X	
<u>Co</u>	ntinuous 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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#### EMISSIONS UNIT INFORMATION

Section 5 of 6

#### 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:
	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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## EMISSIONS UNIT INFORMATION Section 5 of 6

#### I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

#### **Additional Requirements for Air Construction Permit Applications**

1.				
	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: (Required for proposed new stack sampling facilities only)			
	Attached, Document ID: X Not Applicable			
Ad	ditional 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			
Ad	ditional Requirements Comment			

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#### 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.)				
	<ul> <li>The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</li> <li>The emissions unit addressed in this Emissions Unit Information Section is an</li> </ul>				
	unregulated en	<del></del>			
	nissions Unit Desci				
1.	• •	S Unit Addressed in this	•		
	single process	s Unit Information Section or production unit, or act which has at least one do	tivity, which produces of	one or more air	
	This Emissions of process or p		on addresses, as a single vities which has at least	e emissions unit, a group	
	<b></b>	s Unit Information Sections or production units and a	<del>_</del>	e emissions unit, one or fugitive emissions only.	
2.	Description of Em	issions Unit Addressed i	n this Section:		
		Building V	entilation 2		
3.	Emissions Unit Ide	entification Number:			
4.	Emissions Unit	5. Commence	6. Initial Startup	7. Emissions Unit	
	Status Code:	Construction	Date:	Major Group	
	C	Date:	10/2012	SIC Code:	
	F 1 1 D	8/2012	10/2012	33	
8.	_	Applicability: (Check all	tnat apply)		
	Acid Rain Uni	t			
	CAIR Unit		-		
9.	Package Unit: Manufacturer:		Model Number:		
10		ate Rating: MW	- Wiodel Nullibel.		
<u></u>	. Generator Namepl				
fu	11. Emissions Unit Comment:  This emission unit consists of general building ventilation that includes process fugitive emissions from a variety of sources. The PM and lead emission are controlled by a Torit cartridge collector followed by a HEPA filter.				

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## EMISSIONS UNIT INFORMATION Section 6 of 6

#### **Emissions Unit Control Equipment/Method:**

Ethissions out Control Equipment/Method.
1. Control Equipment/Method Description:
PM and lead from the building are controlled by a cartridge collector followed by a HEPA filter.
Torit Cartridge Collector Specifications:
160,000 acfm
160,000 dscfm Ambient Temperature
Negligible Moisture
2 Modules Pulse-jet cleaning system
2. Control Device or Method Code: 018

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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: NA	
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: hours/day	days/week
_	weeks/year	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 I Flow Diagram: <b>Torit Sta</b>		2. Emission Point 7	Гуре Code:	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:				
NA				
4. ID Numbers or Descriptio NA	ns of Emission U	nits with this Emission	n Point in Common:	
5. Discharge Type Code: <b>V</b>	<ol><li>Stack Height 100 feet</li></ol>	:	7. Exit Diameter: <b>8.0</b> feet	
8. Exit Temperature: Ambient °F	<b>160,000</b> acfn	metric Flow Rate:	10. Water Vapor: Negligible %	
11. Maximum Dry Standard F 160,000 dscfm	11. Maximum Dry Standard Flow Rate: 12. Nonstack Emission Point Height: NA feet			
13. Emission Point UTM Coo	rdinates	14. Emission Point Latitude/Longitude Latitude (DD/MM/SS)		
Zone: East (km):  North (km)	:	Langitude (DD/M) Longitude (DD/M)	· ·	
15. Emission Point Comment:				
Stack height may chang	e depending upo	n modeling results.		

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

Segment Description and Rate: Segment \_ of \_

1.	. Segment Description (Process/Fuel Type):				
	NA				•
2.	Source Classification Cod	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:			<del></del>	
L					<u> </u>
	gment Description and Ra		ot		
1.	1. Segment Description (Process/Fuel Type):				
2.	Source Classification Cod	e (SCC):	3. SCC Units	<u> </u>	
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:	<u></u>	<del>-</del>	<u> </u>	
1					

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## EMISSIONS UNIT INFORMATION Section 6 of 6

#### 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	018		EL
PB	018		EL
			<del></del>

### POLLUTANT DETAIL INFORMATION Page 1 of 4

## 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 99.9	ency of Control:
3. Potential Emissions: 6.86 lb/hour 30.03		netically Limited? Yes \to No
5. Range of Estimated Fugitive Emissions (as to tons/year	y tons/ y car	
6. Emission Factor: 0.005 gr/dscf Reference: Proposed BACT		7. Emissions Method Code:
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	
tons/year		Tenou.
<u> </u>		
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	•
tons/year	5 years 1	0 years
10. Calculation of Emissions:		
See Attached Emissions Inventory		
11. Potential, Fugitive, and Actual Emissions C	omment:	

### POLLUTANT DETAIL INFORMATION Page 2 of 4

## 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 Emissions: 6.86 lb/hour 30.03 tons/year
5.	Method of Compliance: Stack Test		
6.	Allowable Emissions Comment (Description Proposed BACT Limit	of (	Operating Method):
Al	<b>lowable Emissions</b> Allowable Emissions 2 o	f <u>2</u>	
1.	Basis for Allowable Emissions Code: RULE	2.	Future Effective Date of Allowable Emissions: NA
3.	Allowable Emissions and Units: 0.03 gr/dscf		Equivalent Allowable Emissions: 41.14 lb/hour 180.21 as/year
5.	Method of Compliance: Stack Test	1	
	Allowable Emissions Comment (Description 62-296.712 FAC		Operating Method):
<u>Al</u>	<b>lowable Emissions</b> 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: PB	2. Total Percent Efficience 99.9	ency of Control:
3. Potential Emissions:  0.030 lb/hour  0.132	,	netically Limited? Yes
5. Range of Estimated Fugitive Emissions (as to tons/year	s applicable):	
6. Emission Factor: 0.05 mg/dscm		7. Emissions Method Code:
Reference: Proposed BACT Limit		0
8.a. Baseline Actual Emissions (if required):	8.b. Baseline 24-month	Period:
tons/year	From:	Co:
9.a. Projected Actual Emissions (if required):	9.b. Projected Monitori	ng Period:
tons/year	5 years 1	0 years
10. Calculation of Emissions:	<u> </u>	
See Attached Emissions Inventory		
11. Potential, Fugitive, and Actual Emissions C	omment:	

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## POLLUTANT DETAIL INFORMATION Page 4 of 4

## 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>Al</u>	<b>lowable Emissions</b> Allowable Emissions <b>1</b> or	f <u>2</u>	
1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Allowable Emissions: <b>NA</b>
3.	Allowable Emissions and Units: 0.05 mg/dscm	4.	Equivalent Allowable Emissions: <b>0.30</b> lb/hour <b>0.132</b> tons/year
5.	Method of Compliance: Stack Testing and Bag Leak Detection		
6.	Allowable Emissions Comment (Description Proposed BACT Limit		
<u>Al</u>	lowable Emissions Allowable Emissions 2 o	f <u>2</u>	
1.	Basis for Allowable Emissions Code: <b>RULE</b>	2.	Future Effective Date of Allowable Emissions: <b>NA</b>
3.	Allowable Emissions and Units: 2 mg/dscm	4.	Equivalent Allowable Emissions: 1.21 lb/hour 5.29 tons/year
5.	Method of Compliance: Same as above		
6.	Allowable Emissions Comment (Description 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):

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## EMISSIONS UNIT INFORMATION Section 6 of 6

#### 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 1

	<del></del>		
1.	Visible Emissions Subtype:	2. Basis for Allowable	
	VE03	x Rule	Other
3.	Allowable Opacity:		
	Normal Conditions: 3 % E	exceptional Conditions:	%
	Maximum Period of Excess Opacity Allov	ved:	min/hour
4.	Method of Compliance:		
	EPA Reference Method 9		
	<del></del>		
5.	Visible Emissions Comment:		
	D 1 (2 20( (02 E) C		
	Rule 62-296.603, FAC		
ļ			
ĺ			
L			
<u>Vi</u>	sible Emissions Limitation: Visible Emiss	sions Limitation of	
1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:
1.	Visible Emissions Subtype:		
3.		2. Basis for Allowable	Opacity:
	Allowable Opacity:	2. Basis for Allowable	e Opacity:  Other
	Allowable Opacity:	2. Basis for Allowable Rule	e Opacity:
	Allowable Opacity: Normal Conditions: % E Maximum Period of Excess Opacity Allow	2. Basis for Allowable Rule	e Opacity:  Other
3.	Allowable Opacity: Normal Conditions: % E Maximum Period of Excess Opacity Allow	2. Basis for Allowable Rule	e Opacity:  Other
4.	Allowable Opacity: Normal Conditions: % E Maximum Period of Excess Opacity Allow Method of Compliance:	2. Basis for Allowable Rule	e Opacity:  Other
3.	Allowable Opacity: Normal Conditions: % E Maximum Period of Excess Opacity Allow	2. Basis for Allowable Rule	e Opacity:  Other
4.	Allowable Opacity: Normal Conditions: % E Maximum Period of Excess Opacity Allow Method of Compliance:	2. Basis for Allowable Rule	e Opacity:  Other
4.	Allowable Opacity: Normal Conditions: % E Maximum Period of Excess Opacity Allow Method of Compliance:	2. Basis for Allowable Rule	e Opacity:  Other
4.	Allowable Opacity: Normal Conditions: % E Maximum Period of Excess Opacity Allow Method of Compliance:	2. Basis for Allowable Rule	e Opacity:  Other
4.	Allowable Opacity: Normal Conditions: % E Maximum Period of Excess Opacity Allow Method of Compliance:	2. Basis for Allowable Rule	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 1

1.	Parameter Code: NA	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:	
	•	
Co	ntinuous 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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#### **EMISSIONS UNIT INFORMATION**

Section 6 of 6

#### 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)  X Attached, Document ID: See Text Previously Submitted, Date
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.	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: See Text 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: (Required for proposed new stack sampling facilities only)
	Attached, Document ID: X Not Applicable
A	ditional 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
A	ditional Requirements Comment

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# Appendix B Modeling Results

Appendix B ENVIRON