

# **WVA Manufacturing, LLC**

Alloy, West Virginia

Plant ID No. 03-54-019-00001

Application for  
Renewal of Title V Permit No.  
R30-01900001-2012

**Redacted Copy**

**December 13, 2016**

# Cover Document

## Confidential Information

Company Name	WVA Manufacturing	Responsible Official	Steven A. Pralley
Company Address	Post Office Box 158 Alloy, WV 25002	Confidential Information	Name W.R. Wagner, II
Person/Title Submitting Confidential Information	Steven A. Pralley	Designee in State of WV	Title Manager - SHEA
	Plant Manager, WVM		Address Post Office Box 158 Alloy, WV 25002
			Phone 304-779-3379
			Fax 304-779-3297
			Email rwagner@glbsm.com

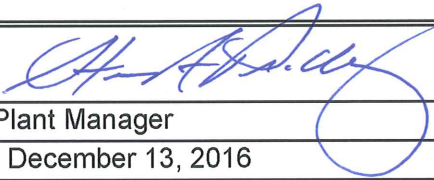
### Reason for Submittal of Confidential Information:

This permit application for renewal of the Title V permit is required by 45 CSR 30. The renewal application lists specific information for the WVA Manufacturing (WVM) manufacturing process that is protected under the Trade Secret definition.

Identification of Confidential Information	Rationale for Confidential Claim	Confidential Treatment Time Period
Attachment C - Process Flow Diagrams, pp. 28 to 44 of application – Entire diagram.	<p>The information presented in the portions of the permit application identified as confidential information constitutes information protected under the definition of "trade secrets" set forth in 45 CSR § 31-2.3:</p> <p><b>(a)</b> WVM continues to claim business confidentiality protection for this information. The claim has not expired by its term, or been waived or withdrawn.</p> <p><b>(b)</b> WVM has taken, and continues to take, all reasonable measures to protect the confidentiality of this information through such measures as vendor licensee nondisclosure agreements, limited distribution lists, business and product trademarks, shredding of documents marked confidential prior to disposal, and appropriately marking and redacting copies.</p> <p><b>(c)</b> The confidential Information is not reasonably obtainable without WVM's consent by persons other than the WVM employees and/or vendors/consultants who need to know and personnel in the West Virginia Department of Environmental Protection, Division of Air Quality. Within the company, WVM has distributed this information on a need-to-know basis only.</p>	Permanently, or until a Responsible Official for WVM declassifies the confidential information

## Cover Document Confidential Information

Identification of Confidential Information	Rationale for Confidential Claim	Confidential Treatment Time Period
	<p>In addition, WVM expects its employees to prevent inadvertent dissemination of information. Special provisions for shredding business confidential documents have been made to allow for recycling. There are no plans to relax strict maintenance of business confidentiality for this technology.</p> <p>(d) No statute specifically requires the disclosure of this information.</p> <p>(e) WVM claims business confidentiality protection for the identified parts of this permit application primarily because the information, if released, would allow competitors to determine the manner in which WVM manufactures its products. The raw materials and equipment are available to current and potential competitors; therefore, disclosure of this information would allow competitors to manufacture this product without either paying for the technology or conducting the necessary research and development. This would give competitors an undue economic advantage since they could potentially manufacture the product at a lower cost.</p>	

Responsible Official Signature:	
Responsible Official Title:	Plant Manager
Date Signed:	December 13, 2016

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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

DIVISION OF AIR QUALITY

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INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

<b>1. Name of Applicant (As registered with the WV Secretary of State's Office):</b> WVA Manufacturing, LLC	<b>2. Facility Name or Location:</b> Alloy Facility Fayette County, West Virginia
<b>3. DAQ Plant ID No.:</b>  019 — 00001	<b>4. Federal Employer ID No. (FEIN):</b>  900520212
<b>5. Permit Application Type:</b>  <input type="checkbox"/> Initial Permit <input checked="" type="checkbox"/> Permit Renewal <input type="checkbox"/> Update to Initial/Renewal Permit Application  When did operations commence? 07/01/1935 What is the expiration date of the existing permit? 07/03/2017	
<b>6. Type of Business Entity:</b>  <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Governmental Agency <input type="checkbox"/> Partnership <input type="checkbox"/> Limited Partnership	<b>7. Is the Applicant the:</b>  <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Both  If the Applicant is not both the owner and operator, please provide the name and address of the other party.  _____ _____ _____
<b>8. Number of onsite employees:</b>  249	
<b>9. Governmental Code:</b>  <input checked="" type="checkbox"/> Privately owned and operated; 0 <input type="checkbox"/> County government owned and operated; 3 <input type="checkbox"/> Federally owned and operated; 1 <input type="checkbox"/> Municipality government owned and operated; 4 <input type="checkbox"/> State government owned and operated; 2 <input type="checkbox"/> District government owned and operated; 5	
<b>10. Business Confidentiality Claims</b>  Does this application include confidential information (per 45CSR31)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  If yes, identify each segment of information on each page that is submitted as confidential, and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY" guidance.	

**11. Mailing Address****Street or P.O. Box:** PO Box 158**City:** Alloy**State:** WV**Zip:** 25002**Telephone Number:** (304) 779-3200**Fax Number:** (304) 779-3297**12. Facility Location****Street:** US Route 60, East**City:** Alloy**County:** Fayette**UTM Easting:** 476.01 km**UTM Northing:** 4,220.96 km**Zone:** ☒ 17 or ☐ 18**Directions:** From Charleston, proceed east on US Route 60 to Alloy, WV. The facility is located on the right side of U.S. Route 60 at Alloy.**Portable Source?** ☐ Yes ☒ No**Is facility located within a nonattainment area?** ☐ Yes ☒ No**If yes, for what air pollutants?****Is facility located within 50 miles of another state?** ☐ Yes ☒ No**If yes, name the affected state(s).****Is facility located within 100 km of a Class I Area<sup>1</sup>?** ☐ Yes ☒ No**If yes, name the area(s).****If no, do emissions impact a Class I Area<sup>1</sup>?** ☐ Yes ☒ No

<sup>1</sup> Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.

<b>13. Contact Information</b>		
<b>Responsible Official:</b> Steven A. Pralley		<b>Title:</b> Plant Manager
<b>Street or P.O. Box:</b> PO Box 158		
<b>City:</b> Alloy	<b>State:</b> WV	<b>Zip:</b> 25002
<b>Telephone Number:</b> (304) 779-3200	<b>Fax Number:</b> (304) 779-3297	
<b>E-mail address:</b> spralley@glbsm.com		
<b>Environmental Contact:</b> W.R. Wagner, II		<b>Title:</b> Manager- SHEA
<b>Street or P.O. Box:</b> PO Box 158		
<b>City:</b> Alloy	<b>State:</b> WV	<b>Zip:</b> 25002
<b>Telephone Number:</b> (304) 779-3379	<b>Fax Number:</b> (304) 779-3297	
<b>E-mail address:</b> rwagner@glbsm.com		
<b>Application Preparer:</b> Jennie Henthorn		<b>Title:</b> Owner
<b>Company:</b> Henthorn Environmental Services LLC		
<b>Street or P.O. Box:</b> Post Office Box 599		
<b>City:</b> St. Albans	<b>State:</b> WV	<b>Zip:</b> 25177
<b>Telephone Number:</b> (304) 727-1445	<b>Fax Number:</b> N/A	
<b>E-mail address:</b> <a href="mailto:jennie@henvtl.com">jennie@henvtl.com</a>		

#### 14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Plant Process	Primary Metal Industries		3313
	Steel Works Blast Furnaces--- Rolling-Finishing		
	Electrometallurgical Products		
Power House	Electric Gas- Sanitary Service		4911
	Electric Service		

#### Provide a general description of operations.

WVA Manufacturing, LLC (SIC Codes 3313 and 4911) owns and operates a ferroalloy manufacturing plant producing silicon, ferrosilicon, slags, and other alloys near Alloy, Fayette County, WV. Coal, silica gravel, charcoal, wood chips, and other raw materials are brought to the plant primarily by truck, rail, and barge. These raw materials are sent to the mix building. The raw materials are then proportionally mixed and conveyed to each of the furnaces (EAF) where they are reduced to the ferroalloy. Molten metal is tapped into large ladles and cast into chills. After the metal hardens, it is sent to packing areas for crushing, sizing, and packaging. The product is shipped directly by rail or packaged and shipped to customers. West Virginia Alloy, Inc. generates electricity for Alloy Plant operation from its Coal Fired Power Plant (Steam Plant). The Alloy Steam Plant operates coal fired Boiler 4. The relevant source category applicable to the facility is "Industrial, Commercial, & Institutional Boilers & Process Heaters, proposed 40 CFR Part 63 Subpart DDDDD (Signed Final by USEPA, 2/26/04) – large solid fuel subcategory". The nominal capacity of the ferroalloy smelter is 121,000 tons of ferroalloy per year. Fume (microsilica) from the furnaces is processed into marketable products. The microsilica product facility has a nominal capacity to ship 40,000 tons per year. The ferroalloy smelter, the Alloy Steam Plant, and the microsilica product facility each have the potential to operate twenty-four (24) hours a day, seven (7) days per week for fifty-two (52) weeks per year.

15. Provide an **Area Map** showing plant location as **ATTACHMENT A**.

16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B**. For instructions, refer to "Plot Plan - Guidelines."

17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C**. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

**Section 2: Applicable Requirements**

<b>18. Applicable Requirements Summary</b>	
Instructions: Mark all applicable requirements.	
<input checked="" type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input checked="" type="checkbox"/> PSD (45CSR14)
<input checked="" type="checkbox"/> NESHAP (45CSR15)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input type="checkbox"/> Section 111 NSPS	<input type="checkbox"/> Section 112(d) MACT standards
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqs.	<input type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input type="checkbox"/> 45CSR27 State enforceable only rule
<input checked="" type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input checked="" type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input type="checkbox"/> CAIR NO <sub>x</sub> Annual Trading Program (45CSR39)	<input checked="" type="checkbox"/> CAIR NO <sub>x</sub> Ozone Season Trading Program (45CSR40)
<input type="checkbox"/> CAIR SO <sub>2</sub> Trading Program (45CSR41)	
<b>19. Non Applicability Determinations</b>	
<p><b>List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.</b></p> <ul style="list-style-type: none"> <li> <b>40CFR60, Subpart D</b> - Standards of Performance for Fossil-Fuel-fired Steam Generators constructed after August 17, 1971  <i>Basis for Applicability Determination:</i> Applies to steam generation units with heat input &gt; 250 mmBtu/hr, and were constructed, reconstructed, or modified after 8/17/71. No such sources exist at the facility </li> <li> <b>40CFR60, Subpart Da</b> - Standards of Performance for Electric Utility Steam Generating Units  <i>Basis for Applicability Determination:</i> Applies to steam generating units capable of combusting &gt; 250 mmBtu/hr heat input of fossil fuels, and were constructed, reconstructed, or modified after 9/18/1978 . No such sources exist at the facility </li> <li> <b>40CFR60, Subpart Db</b> - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.  <i>Basis for Applicability Determination:</i> Applies to steam generating units with heat input &gt; 100 mmBtu/hr which were constructed, reconstructed, or modified after 6/19/84. The Unit's thermal oxidizer does not burn one of the listed fuels. </li> </ul> <p>(continued...)</p>	
<input checked="" type="checkbox"/> Permit Shield	

## 19. Non Applicability Determinations

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

- **40CFR60, Subpart K** - Standards of Performance for Storage Vessels for Petroleum Liquids constructed or modified after June 11, 1973 and prior May 19, 1978.  
*Basis for Applicability Determination:* Petroleum liquids are not stored in vessels with a capacity greater than 40,000 gallons.
- **40CFR60, Subpart Ka** - Standards of Performance for Storage Vessels for Petroleum Liquids constructed or modified after May 18, 1978 and prior July 23, 1984.  
*Basis for Applicability Determination:* Petroleum liquids are not stored in vessels with a capacity greater than 40,000 gallons.
- **40CFR60, Subpart Kb** - Kb—Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984  
*Basis for Applicability Determination:* Vessels are smaller than 75 m<sup>3</sup> and the Tar Tank was built before 7/23/1984.
- **40CFR60, Subpart LL** - Standards of Performance for Metallic Mineral Processing Plants  
*Basis for Applicability Determination:* Facility precedes the effective date of 8/24/1982
- **40CFR60, Subpart O** - Standards of Performance for Sewage Treatment Plants.  
*Basis for Applicability Determination:* The facility does not operate a municipal treatment plant.
- **40CFR60, Subpart OOO** - Standards of Performance for Metallic Mineral Processing Plants  
*Basis for Applicability Determination:* The facility does not crush or grind nonmetallic minerals
- **40CFR60, Subpart UUU** - Standards of Performance for Calciners and Dryers in Mineral Industries  
*Basis for Applicability Determination:* Silica and ferrosilica are not listed as a mineral processed or produced in a mineral processing plant
- **40CFR60, Subpart Y** – Standards of Performance for Coal Preparation Plants  
The facility's coal handling operations precede the effective date of 10/24/1974
- **40CFR60, Subpart Z** - Standards of Performance for Ferroalloy Production Facilities  
*Basis for Applicability Determination:* The modification of the electric arc Furnace 15 in 1997 did not exceed the annual asset guidelines repair allowance percentage of 18% for capital expenditures
- **40CFR72** – Acid Rain Program  
*Basis for Applicability Determination:* The facility is not considered a Title IV (Acid Rain) Source
- **45 CSR 10-5.1** – To Prevent and Control Air Pollution from the Emission of Sulfur Oxides  
*Basis for Applicability Determination:* The process is not defined as a refinery process gas stream or any other process gas stream that contains hydrogen sulfides to be combusted
- **45 CSR 17** – To Prevent and Control Particulate Matter Air Pollution from Materials Handling, Preparation, Storage and Other Sources Of Fugitive Particulate Matter  
*Basis for Applicability Determination:* The facility is subject to 45 CSR 7, which exempts it from 45 CSR 17
- **45 CSR 33** – Acid Rain Provisions and Permits  
*Basis for Applicability Determination:* The facility is not considered a Title IV (Acid Rain) Source

☒ Permit Shield

## 20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).

**Open burning.** The open burning of refuse by any person is prohibited except as noted in 45CSR§6-3.1. [45CSR§6-3.1.]

**Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible. [45CSR§6-3.2.]

**Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them. [40 C.F.R. 61 and 45CSR34]

**Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public. [45CSR§4-3.1 State-Enforceable only.]

**Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11. [45CSR§11-5.2]

**Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality. [W.Va. Code § 22-5-4(a)(14)]

**Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161. **[40 C.F.R. 82, Subpart F]**

**Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71. **[40 C.F.R. 68]**

**CAIR NO<sub>x</sub> Ozone Season Trading Program.** Boiler 4 was permanently shut down, therefore the permittee shall comply with the retired unit exemption provisions set forth in 45CSR§40.5. **[45CSR§40.5 and 45CSR14, R14-0017, A.24]**

(continued...)

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**20. Facility-Wide Applicable Requirements (Continued)**

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 45CSR§7- 3.2 (See Section 3.1.11), 3.3, 3.4, 3.5, 3.6, and 3.7 (See Section 3.1.12). [45CSR§7-3.1, 45CSR13, R13-2052, B.2, 45CSR14, R14-0017, B.2]

The provisions of Section 3.1.10 [45CSR§7-3.1] shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period. [45CSR§7-3.2]

No person shall cause, allow or permit visible emissions from any storage structure(s) associated with any manufacturing process(es) that pursuant to Section 3.1.15 [45CSR§7-5.1] is required to have a full enclosure and be equipped with a particulate matter control device. The loading and unloading of the above silos are not subject to standards of 45CSR§7-3.7, but are subject to the standard of 45CSR§7-5.1 to minimize emissions of fugitive particulate matter. [45CSR§7-3.7, Group 006 (Silo 7, Silo 14, DS-1 and DS-2)]

No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A of 45CSR7. Following table list the equipment with their allowable stack emission rates.

Sources	Allowable Stack Emission Rate (lb PM/hr)
C7P Impactor 004-02	3.4
C7P Multi-Stage Crusher 004-03	33.0
C6F Sizing and Cleaning 004-04	19.0
C3P Multi-Stage Crusher 004-05	33.0
C3P Drum Packing Station 004-06	10.0
Silo 7	16
Silo 14	16
Dry Microsilica Facility	
DM-1	6.0
DM-2	6.0
DS-1	37
DS-2	37

Compliance with the PM emission limits for DS-1, DS-2, DM-1 and DM-2 in this requirement is demonstrated, if compliance with PM emission limits in requirement 6.1.4 is demonstrated. [45CSR§7-4.1, 45CSR13, R13-2052, B.2, 45CSR14, R14-0017, B.2, Groups 002, 003, 004, and 006]

Any stack serving any process source operation or air pollution control equipment on any process source operation shall contain flow straightening devices or a vertical run of sufficient length to establish flow patterns consistent with acceptable stack sampling procedures. [45CSR§7-4.12]

(continued...)

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## 20. Facility-Wide Applicable Requirements (Continued)

**List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).**

No person shall cause, suffer, allow, or permit any manufacturing process generating fugitive particulate matter to operate that is not equipped with a system to minimize the emissions of fugitive particulate matter. To minimize means that a particulate capture or suppression system shall be installed to ensure the lowest fugitive particulate emissions reasonably achievable. [45CSR§7-5.1, 45CSR13, R13-2052, B.2, 45CSR14, R14-0017, B.2]

The owner or operator of a plant shall maintain dust control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary dust suppressants shall be applied in relation to stockpiling and general material handling to prevent dust generation and atmospheric entrainment. [45CSR§7-5.2, 45CSR13, R13-2052, B.2, 45CSR14, R14-0017, B.2]

The provisions of Sections 3.1.10, 3.1.11, and 3.1.15 [45CSR§§7-3.1, 3.2, and 5.1] shall not apply to particulate matter emitted from the operation of a ferroalloy electric submerged arc furnace in existence prior to June 1, 1993 during blowing taphole events, poling and oxygen lancing operations. Poling emissions shall not exceed five (5) minutes in duration during any poling operation. [45CSR§7-5.3]

Due to unavoidable malfunction of equipment, emissions exceeding those set forth in 45CSR7 may be permitted by the Director for periods not to exceed ten (10) days upon specific application to the Director. Such application shall be made within twenty-four (24) hours of the malfunction. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director. [45CSR§7-9.1]

Maintenance operations (as defined in 45CSR7) shall be exempt from the provisions of 45CSR§7-4 provided that at all times the owner or operator shall conduct maintenance operations in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Director, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures and inspection of the source. [45CSR§7-10.3]

An owner or operator may apply for an alternative visible emission standard for start-up and shutdown periods, on a case-by-case basis, by filing a written petition with the Director. The Director may approve an alternative visible emission standard for start-ups and shutdowns to the visible emission standard required under 45CSR§7-3. The petition shall include a demonstration satisfactory to the Director:

- a. That it is technologically or economically infeasible to comply with 45CSR§7-3;
- b. That establishes the need for approval of a start-up or shutdown plan based upon information including, but not limited to, monitoring results, opacity observations, operating procedures and source inspections.
- c. That the particulate matter weight emission standards under 45CSR§7-4 are being met, as determined in accordance with 45CSR7A - "Compliance Test Procedures For 45CSR7 - 'To Prevent and Control Particulate Air Pollution From Manufacturing Process Operations'"; and
- d.. That during periods of start-ups and shutdowns the owner or operator shall, to the extent practicable, maintain and operate any manufacturing process including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Director, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures and inspection of the source. [45CSR§7-10.4]

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**20. Facility-Wide Applicable Requirements (Continued) - Attach additional pages as necessary.**

**For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

**Monitoring:**

The permittee shall conduct monitoring/Record Keeping/reporting as follows. [Not required for open stockpiles and haulroads]

- a. The permittee shall perform monthly Method 22 visible emission observations for particulate matter emission activities for the emission sources identified as Groups 002, 004, 005, and 006 in the Emission Unit Table, Section 1.1. These visible emission observations shall be conducted for a 6 minute time intervals to determine if any of the subject emission points have visible emissions and if so, determine the opacity of the emissions. If any of the subject emission points have visible emissions exceeding the regulatory limit of twenty percent (20%) opacity, then a 45CSR7A evaluation shall be conducted immediately after the violation of the regulatory limit unless the permittee can demonstrate a valid reason that the time frame should be extended. A 45CSR7A evaluation shall not be required if the condition resulting in the excess visible emissions is corrected within 24 hours and the units are operated at normal operating conditions.
- b. A record of each visible emissions observation shall be maintained, including any data required by 40 C.F.R. 60 Appendix A, Method 22 or 45CSR7A, whichever is appropriate. The record shall include, at a minimum, the date, time, name of the emission unit, the applicable visible emissions requirement, the results of the observation, and the name of the observer. Records shall be maintained on site stating any maintenance or corrective actions taken as a result of the monthly observations, and the times the fugitive dust control system(s) are inoperable and any corrective actions taken. [45CSR§30-5.1.c]

The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. [45CSR§30-5.1.c]

**CAM monitoring requirement.** The differential pressure drop across each of the Dust Collectors (C3P and C7P, Emission Points 023 and 025A) shall be monitored at least once daily. Records shall be kept on site with entries including date and time of each reading, and readings' result. If there were more than one reading taken during one day, the readings should be averaged on a daily basis to get a daily average (one for each 24-hr period). If there was just one reading taken during one day, this reading should be considered "a daily average". A daily average pressure drop outside of the range of 3" - 6" water gage for the C3P Baghouse and C7P Baghouse 0016, and outside of the range of 10" - 14" water gage for the C7P Baghouse 0015 is considered an excursion.

If an excursion occurs, corrective action, if necessary, shall be taken as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and recordkeeping and reporting shall be initiated. Records shall be maintained on site as per Requirement 3.4.2. [45CSR§§30-5.1.c and 12.7, and 40C.F.R. §§64.3(a), 64.3(b) and 64.6(c)(2)][Baghouses C3P, C7P]

**Commencement of operation.** The permittee shall conduct the monitoring of the Multi-Stage Crushers C3P and C7P required under 40 CFR Part 64 upon issuance of this permit. [40 CFR §§ 64.7(a) and 64.6(d); 45CSR§30-5.1.c.] [C3P, C7P]

(continued...)

**Are you in compliance with all facility-wide applicable requirements?** ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**20. Facility-Wide Applicable Requirements (Continued)** - Attach additional pages as necessary.

**For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

**Proper Maintenance** – At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR § 64.7(b); 45CSR§30-5.1.c.] [Baghouses C3P, C7P]

**Continued Operation** – Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of 40 CFR Part 64, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. [40 CFR § 64.7(c); 45CSR§30-5.1.c] [Baghouses C3P, C7P]

**Documentation of Need for Improved Monitoring** – After approval of monitoring under 40 CFR Part 64, if the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters. [40 CFR § 64.7(e); 45CSR§30-5.1.c] [Baghouses C3P, C7P]

**Quality Improvement Plan (QIP)** – Based on the results of a determination made under 40 CFR §64.7(d)(2) (permit condition 3.4.4.b), the Administrator or the Director may require the permittee to develop and implement a QIP. If a QIP is required, then it shall be developed, implemented, and modified as required according to 40 CFR §§ 64.8(b) through (e). Refer to permit condition 3.5.10.B.2. for the reporting required when a QIP is implemented. [40 CFR § 64.8; 45CSR§30-5.1.c] [Baghouses C3P, C7P]

**Testing:**

**Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

(continued...)

**Are you in compliance with all facility-wide applicable requirements?** ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**20. Facility-Wide Applicable Requirements (Continued) - Attach additional pages as necessary.**

**For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.
- d. The permittee shall submit a report of the results of the stack test within 60 days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:
  1. The permit or rule evaluated, with the citation number and language.
  2. The result of the test for each permit or rule condition.
  3. A statement of compliance or non-compliance with each permit or rule condition.

**[WV Code §§ 22-5-4(a)(14-15) and 45CSR13]**

At such reasonable times as the Director may designate, the operator of any manufacturing process source operation may be required to conduct or have conducted stack tests to determine the particulate matter loading in exhaust gases. Such tests shall be conducted in such manner as the Director may specify and be filed on forms and in a manner acceptable to the Director. The Director, or his duly authorized representative, may at his option witness or conduct such stack tests. Should the Director exercise his option to conduct such tests, the operator will provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment and the required safety equipment such as scaffolding, railings and ladders to comply with generally accepted good safety practices. **[45CSR§7-8.1]**

The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions. **[45CSR§7-8.2]**

*(continued...)*

**Are you in compliance with all facility-wide applicable requirements?** ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**20. Facility-Wide Applicable Requirements (Continued)** - Attach additional pages as necessary.

**For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

**Recordkeeping:**

**Monitoring information.** The permittee shall keep records of monitoring information that include the following:

- a. The date, place as defined in this permit and time of sampling or measurements;
- b. The date(s) analyses were performed;
- c. The company or entity that performed the analyses;
- d. The analytical techniques or methods used;
- e. The results of the analyses; and
- f. The operating conditions existing at the time of sampling or measurement.

**[45CSR§30-5.1.c.2.A.]**

**Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.

**[45CSR§30-5.1.c.2.B.]**

**Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.

**[45CSR§30-5.1.c. State-Enforceable only.]**

**Response to Excursions or Exceedances**

- a. Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- b. Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

**[40 CFR § 64.7(d); 45CSR§30-5.1.c] [Baghouses C3P, C7P]**

*(continued...)*

**Are you in compliance with all facility-wide applicable requirements?** ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**20. Facility-Wide Applicable Requirements (Continued)** - Attach additional pages as necessary.

**For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

**General recordkeeping requirements for 40 CFR Part 64 (CAM)**

The permittee shall comply with the recordkeeping requirements specified in permit conditions 3.4.1 and 3.4.2. The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR §64.8 (3.2.8) and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR Part 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). [40 CFR § 64.9(b); 45CSR§30-5.1.c] [Baghouses C3P, C7P]

**Reporting:**

**Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

[45CSR§§30-4.4. and 5.1.c.3.D.]

A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.

[45CSR§30-5.1.c.3.E.]

Except for the electronic submittal of the annual certification to the USEPA as required in 3.5.5 below, all notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, mailed first class or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

**If to the DAQ:**

Director  
WVDEP  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone: 304/926-0475  
FAX: 304/926-0478

**If to the US EPA:**

Associate Director  
Office of Enforcement and Permits Review (3AP12)  
U. S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

**Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality.

[45CSR§30-8.]

**Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period

(continued...)

**Are you in compliance with all facility-wide applicable requirements?** ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**20. Facility-Wide Applicable Requirements (Continued)** - Attach additional pages as necessary.

**For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

ending December 31. The annual certification to the USEPA shall be submitted in electronic format only. It shall be submitted by e-mail to the following address: R3\_APD\_Permits@epa.gov. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification. **[45CSR§30-5.3.e.]**

**Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4. **[45CSR§30-5.1.c.3.A.]**

**Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.

**Deviations.**

a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:

1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.

2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.

3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.

4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

**[45CSR§30-5.1.c.3.C.]**

b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.

**[45CSR§30-5.1.c.3.B.]**

**New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement. **[45CSR§30-4.3.h.1.B.]**

*(continued...)*

**Are you in compliance with all facility-wide applicable requirements?** ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

**20. Facility-Wide Applicable Requirements (Continued)** - Attach additional pages as necessary.

**For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

**General reporting requirements for 40 C.F.R. Part 64 (CAM)**

- a. On and after the date specified in 40 CFR §64.7(a) by which the permittee must use monitoring that meets the requirements of 40 CFR 64, the permittee shall submit CAM monitoring reports with the semi- annual monitoring report under permit condition 3.5.6. Incorporation by reference within the semi-annual monitoring report is not acceptable.
- b. A report for monitoring under 40 CFR 64 shall include, at a minimum, the information required under permit condition 3.5.8. and the following information, as applicable:
  - 1. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
  - 2. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
  - 3. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR §64.8. Upon completion of a QIP, the permittee shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring. [40 CFR § 64.9(a); 45CSR§30-5.1.c] [Baghouses C3P, C7P]

**Are you in compliance with all facility-wide applicable requirements?** ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



21. Active Permits/Consent Orders		
Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit <i>(if any)</i>
R14-0017B	01/03/2006	
R13-2052	05/21/2003	
R30-01900001-2012	07/03/2012	
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## 22. Inactive Permits/Obsolete Permit Conditions- NA

[illegible]

**Section 3: Facility-Wide Emissions**

<b>23. Facility-Wide Emissions Summary [Tons per Year]</b>	
<b>Criteria Pollutants</b>	<b>Potential Emissions</b>
Carbon Monoxide (CO)	1904
Nitrogen Oxides (NO <sub>x</sub> )	2956
Lead (Pb)	0.226
Particulate Matter (PM <sub>2.5</sub> ) <sup>1</sup>	525
Particulate Matter (PM <sub>10</sub> ) <sup>1</sup>	777
Total Particulate Matter (TSP)	1289
Sulfur Dioxide (SO <sub>2</sub> )	3115
Volatile Organic Compounds (VOC)	147
<b>Hazardous Air Pollutants<sup>2</sup></b>	<b>Potential Emissions</b>
1,2-Dibromoethane	0.089
1,2-Dichloroethane	0.089
1,2-Dichloropropane	0.101
2-Chloroaceteophenone	0.110
Acetaldehyde	2.64
Acetophenone	0.0024
Acrolein	0.917
Anitmony Compounds	0.00317
Arsenic Compounds	0.017
Benzene	1.15
Benzyl Chloride	0.11
Bis(2-ethylhexyl)phthalate (DEHP)	0.022
Bromoform	0.0061
Bromomethane (methyl bromide)	0.0713
Cadmium compounds	0.0085
Carbon Disulfide	0.0204
Carbon Tetrachloride	0.138
Chlorine	0.169
Chlorobenzene	0.105
Chloroform	0.095
Chloromethane (methyl chloride)	0.194
Chromium Compounds	0.027
Cobalt Compounds	0.01
Cumene	0.017
Cyanide Compounds	0.027
Dimethyl sulfate	0.0076
Ethyl Benzene	0.111
Ethyl Chloride	0.01
Ethylene dichloride	0.0063
Formaldehyde	0.547
Hexane	0.626
Hydrochloric Acid (HCl)	227
Hydrofluoric Acid (HF)	10.3

**23. Facility-Wide Emissions Summary [Tons per Year]**

Criteria Pollutants	Potential Emissions
Isophorone	0.091
Lead Compounds	0.226
Manganese Compounds	0.070
Mercury Compounds	0.00088
Methyl Chloroform	0.13
Methyl Ethyl Ketone	0.124
Methyl hydrazine	0.0027
Methyl Methacrylate	0.0032
Methyl tert-buty Ether (MTBE)	0.0086
Methylene chloride	0.018
Naphthalene	0.000028
Nickel Compounds	.012
Phenol	0.159
Polycyclic Organic Matter	0.0026
Propionaldehyde	0.247
Selenium Compounds	0.246
Styrene	5.84
Tetrachloroethylene	0.0068
Toluene	2.87
Xylenes	.0114

<sup>1</sup>PM<sub>2.5</sub> and PM<sub>10</sub> are components of TSP.

<sup>2</sup>For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

**Section 4: Insignificant Activities**

<b>24. Insignificant Activities (Check all that apply)</b>	
<input checked="" type="checkbox"/>	1. Air compressors and pneumatically operated equipment, including hand tools.
<input checked="" type="checkbox"/>	2. Air contaminant detectors or recorders, combustion controllers or shutoffs.
<input checked="" type="checkbox"/>	3. Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items, janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
<input checked="" type="checkbox"/>	4. Bathroom/toilet vent emissions.
<input checked="" type="checkbox"/>	5. Batteries and battery charging stations, except at battery manufacturing plants.
<input checked="" type="checkbox"/>	6. Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
<input checked="" type="checkbox"/>	7. Blacksmith forges.
<input checked="" type="checkbox"/>	8. Boiler water treatment operations, not including cooling towers.
<input checked="" type="checkbox"/>	9. Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
<input type="checkbox"/>	10. CO <sub>2</sub> lasers, used only on metals and other materials which do not emit HAP in the process.
<input checked="" type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input checked="" type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
<input checked="" type="checkbox"/>	13. Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
<input type="checkbox"/>	14. Demineralized water tanks and demineralizer vents.
<input checked="" type="checkbox"/>	15. Drop hammers or hydraulic presses for forging or metalworking.
<input checked="" type="checkbox"/>	16. Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
<input type="checkbox"/>	17. Emergency (backup) electrical generators at residential locations.
<input checked="" type="checkbox"/>	18. Emergency road flares.
<input checked="" type="checkbox"/>	<p>19. Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO<sub>x</sub>, SO<sub>2</sub>, VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis:</p> <p><u>Bottom Blowing Plvg Station</u></p> <p><u>Tar Storage Tanks</u></p> <p><u>Diesel Storage Tanks</u></p> <p><u>Gasoline Tank</u></p> <p><u>Paint Spray Booths</u></p> <p><u>Carbon Paste Pan Mill</u></p> <p>_____</p> <p>_____</p> <p>_____</p>

24. Insignificant Activities (Check all that apply)	
<input type="checkbox"/>	<p>20. Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans or for toxic air pollutants as per 45CSR27.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<input type="checkbox"/>	21. Environmental chambers not using hazardous air pollutant (HAP) gases.
<input type="checkbox"/>	22. Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
<input type="checkbox"/>	23. Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
<input checked="" type="checkbox"/>	24. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
<input type="checkbox"/>	25. Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
<input checked="" type="checkbox"/>	26. Fire suppression systems.
<input checked="" type="checkbox"/>	27. Firefighting equipment and the equipment used to train firefighters.
<input type="checkbox"/>	28. Flares used solely to indicate danger to the public.
<input checked="" type="checkbox"/>	29. Fugitive emission related to movement of passenger vehicle, provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
<input type="checkbox"/>	30. Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
<input checked="" type="checkbox"/>	31. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
<input type="checkbox"/>	32. Humidity chambers.
<input type="checkbox"/>	33. Hydraulic and hydrostatic testing equipment.
<input checked="" type="checkbox"/>	34. Indoor or outdoor kerosene heaters.
<input checked="" type="checkbox"/>	35. Internal combustion engines used for landscaping purposes.
<input type="checkbox"/>	36. Laser trimmers using dust collection to prevent fugitive emissions.
<input type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input type="checkbox"/>	38. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
<input type="checkbox"/>	39. Oxygen scavenging (de-aeration) of water.
<input type="checkbox"/>	40. Ozone generators.

<b>24. Insignificant Activities (Check all that apply)</b>	
<input checked="" type="checkbox"/>	41. Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots), provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify, if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
<input type="checkbox"/>	42. Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
<input checked="" type="checkbox"/>	43. Process water filtration systems and demineralizers.
<input checked="" type="checkbox"/>	44. Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
<input checked="" type="checkbox"/>	45. Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
<input checked="" type="checkbox"/>	46. Routing calibration and maintenance of laboratory equipment or other analytical instruments.
<input type="checkbox"/>	47. Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
<input type="checkbox"/>	48. Shock chambers.
<input type="checkbox"/>	49. Solar simulators.
<input checked="" type="checkbox"/>	50. Space heaters operating by direct heat transfer.
<input checked="" type="checkbox"/>	51. Steam cleaning operations.
<input checked="" type="checkbox"/>	52. Steam leaks.
<input type="checkbox"/>	53. Steam sterilizers.
<input checked="" type="checkbox"/>	54. Steam vents and safety relief valves.
<input type="checkbox"/>	55. Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
<input checked="" type="checkbox"/>	56. Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits, such as storage tank capacity and vapor pressure of liquids stored, are not appropriate for this list.
<input type="checkbox"/>	57. Such other sources or activities as the Director may determine.
<input checked="" type="checkbox"/>	58. Tobacco smoking rooms and areas.
<input checked="" type="checkbox"/>	59. Vents from continuous emissions monitors and other analyzers.

<b>25. Equipment Table</b>
Fill out the <b>Title V Equipment Table</b> and provide it as <b>ATTACHMENT D</b> .
<b>26. Emission Units</b>
For each emission unit listed in the <b>Title V Equipment Table</b> , fill out and provide an <b>Emission Unit Form</b> as <b>ATTACHMENT E</b> .
For each emission unit not in compliance with an applicable requirement, fill out a <b>Schedule of Compliance Form</b> as <b>ATTACHMENT F</b> .
<b>27. Control Devices</b>
For each control device listed in the <b>Title V Equipment Table</b> , fill out and provide an <b>Air Pollution Control Device Form</b> as <b>ATTACHMENT G</b> .
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the <b>Compliance Assurance Monitoring (CAM) Form(s)</b> for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as <b>ATTACHMENT H</b> .



**Section 6: Certification of Information**

**28. Certification of Truth, Accuracy and Completeness and Certification of Compliance**

*Note: This Certification must be signed by a responsible official. The **original**, signed in **blue ink**, must be submitted with the application. Applications without an **original** signed certification will be considered as incomplete.*

**a. Certification of Truth, Accuracy and Completeness**

I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.

**b. Compliance Certification**

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned, hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

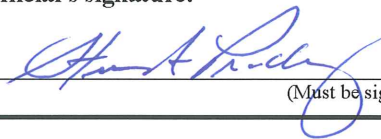
**Responsible official (type or print)**

Name: Steven A. Pralley

Title: Plant Manager

**Responsible official's signature:**

Signature: \_\_\_\_\_



Signature Date: \_\_\_\_\_

12-13-16

(Must be signed and dated in blue ink)

**Note: Please check all applicable attachments included with this permit application:**

☒ ATTACHMENT A: Area Map

☒ ATTACHMENT B: Plot Plan(s)

☒ ATTACHMENT C: Process Flow Diagram(s)

☒ ATTACHMENT D: Equipment Table

☒ ATTACHMENT E: Emission Unit Form(s)

☒ ATTACHMENT F: Schedule of Compliance Form(s)

☒ ATTACHMENT G: Air Pollution Control Device Form(s)

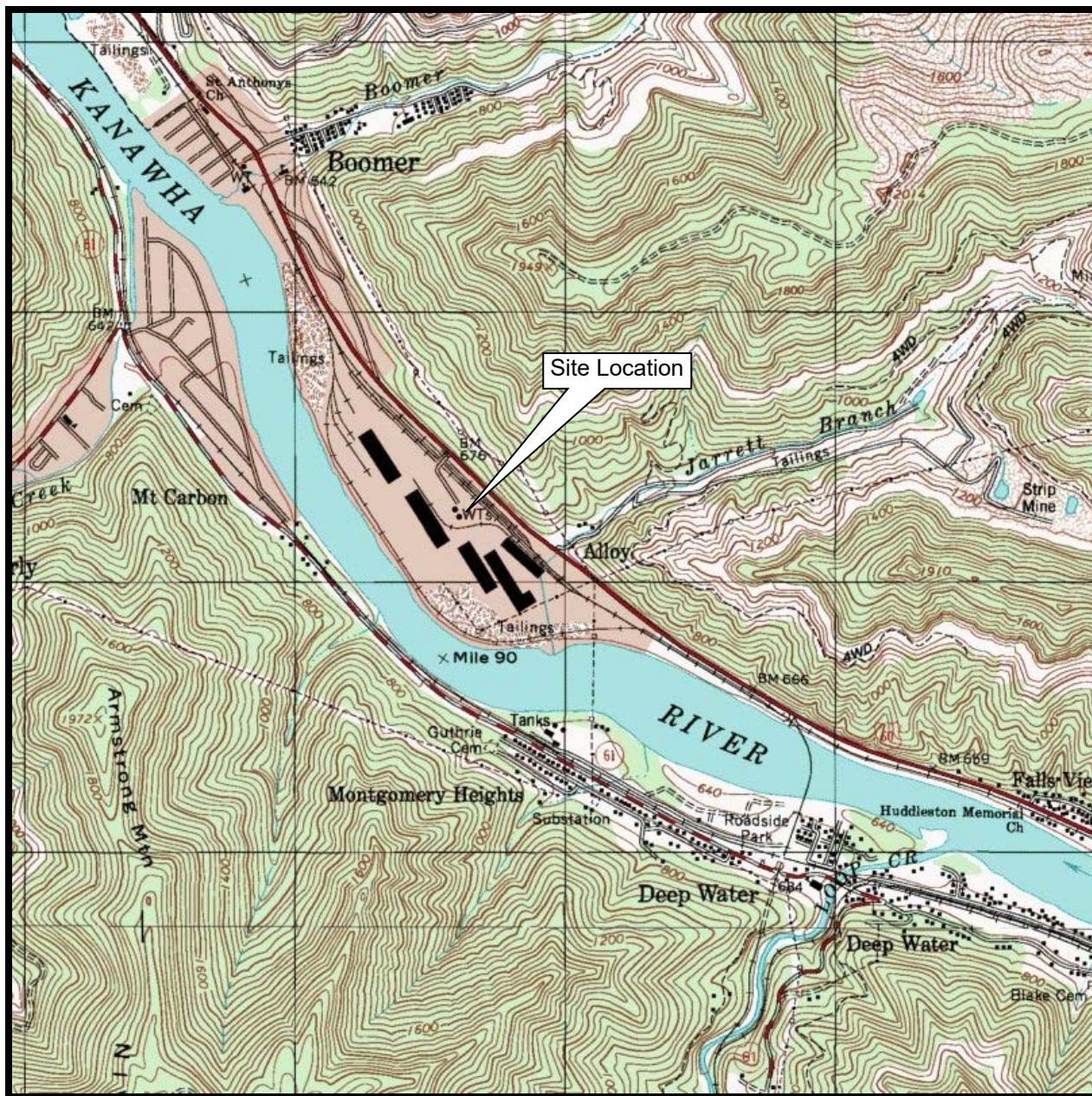
☒ ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

*All of the required forms and additional information can be found and downloaded from, the DEP website at [www.wvdep.org/daq](http://www.wvdep.org/daq), requested by phone (304) 926-0475, and/or obtained through the mail.*

# **Attachment A**

Area Map





**Attachment A**  
WVA Manufacturing, LLC  
Alloy Site

USGS 7.5 Minute Series  
Topographic Map

Montgomery, W.Va. Quadrangle

# **Attachment B**

Plot Plan



No.	Date	Revision

01  
CAD File No.  
RSB  
Drawn  
PEW  
Checked  
PEW  
Approved  
NONE  
Scale:  
JUNE 2010  
Date:  
10-0202  
Project No.

**POTESTA & ASSOCIATES, INC.**  
ENGINEERS AND ENVIRONMENTAL CONSULTANTS  
7012 MacCordle Ave. SE, Charleston, WV 25304  
TEL: (304) 342-1400 FAX: (304) 343-9031  
E-Mail Address: [potesta@potesta.com](mailto:potesta@potesta.com)

# POTESTA

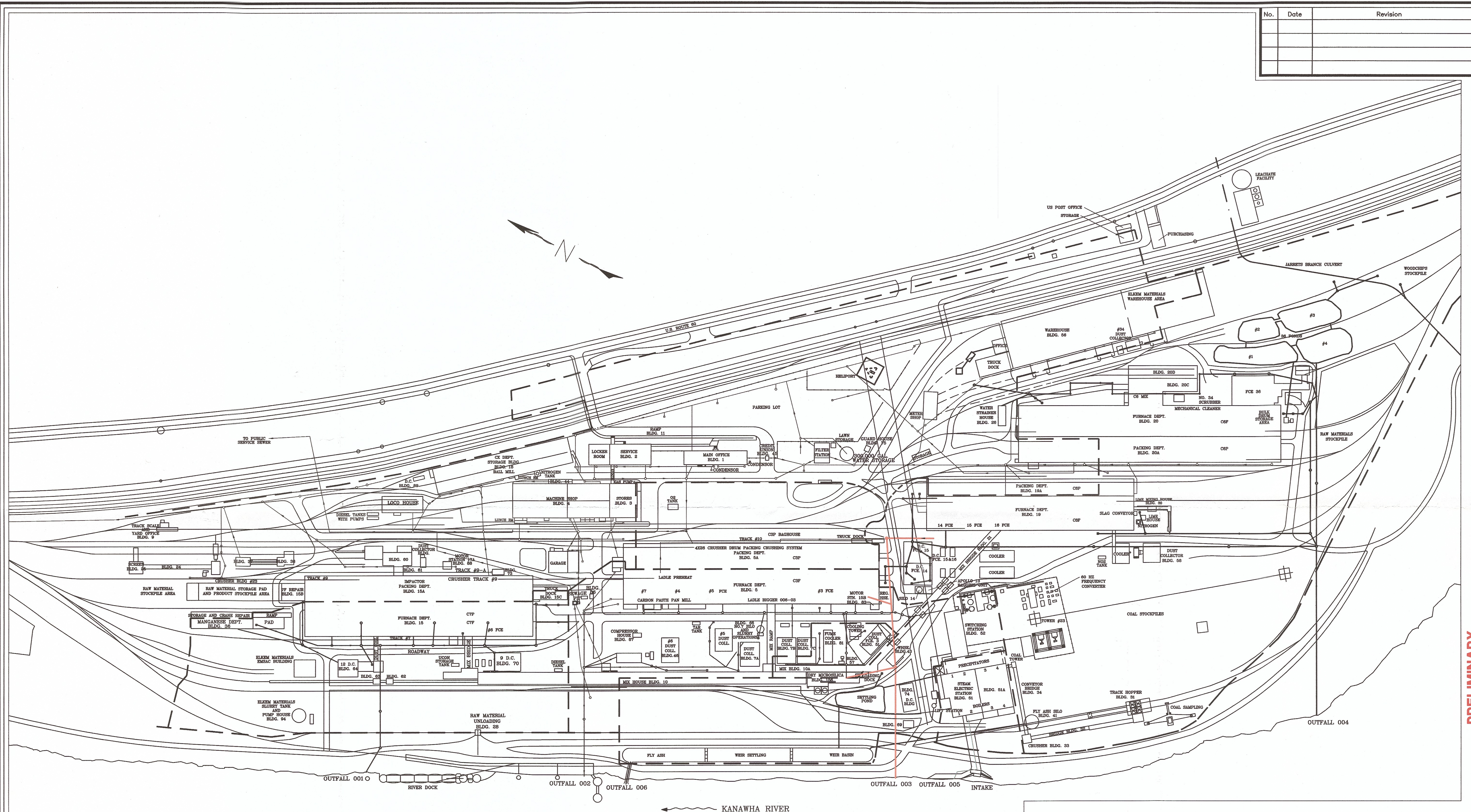
**WV ALLOY, INC.  
P.O. BOX 158  
ALLOY, WV 25002**

Client

**ALLOY FACILITY  
PLAN VIEW  
WV ALLOY, INC.**

Title

1  
Drawing No.



**GRAPHIC SCALE**



MAPPING REFERENCE:  
DRAWING FROM ELKEM METALS COMPANY DRAWING EBS-8652 DATED JUNE 1995, UNION CARBIDE CORPORATION DRAWING EBS-4023 DATED 10-12-76 AND ELKEM METALS COMPANY DRAWING EBSF-3802 DATED 07-02-97.

## PRELIMINARY

File: S:\C30-Proj-YR\2010\10-0202-ALLOY TV RENEWAL\10-0202-01.dwg  
 Plot Date/Time: Jul 02, 2010 - 4:53pm  
 Plotted By: astarcher



# **Attachment C**

## Process Flow Diagram







































## **Attachment D**

### Title V Equipment Table



ATTACHMENT D - Title V Equipment Table (includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)					
Emission Point ID <sup>1</sup>	Control Device <sup>1</sup>	Emission Unit ID <sup>1</sup>	Emission Unit Description	Design Capacity	Year Installed/ Modified
Raw Material Stock Piles Group 002					
Fugitive	None	002-05	Raw Material Storage Piles	Nominal Capacity: 7 acres	None Applicable
C6M Mix System (Buildings 20C, 20D) Group 002					
Stack 008 and Fugitives from Building	Baghouse 34 (0014) and Building Control	02-06	C6M Mix System consists of:	Nominal Capacity: 16.6 tons/hr	7/1/1941
			System Manufacturer: Jeffrey		
			Unloading Pit		
			Conveyor Elevator		
			Bin 1		
			Bin 2		
			Bin 3		
			Bin 4		
			Conveyor		
Loading Station					
Stack 008	Not Applicable	0014	Baghouse 34 (0014)	Design Capacity: 99,360 CFM @ 90 °F	7/1/1972
			Manufacturer: Wheelabrator		
			Model No.: High Temperature, Structural		
			Compartments: 6		
			Total Cloth Area: 55,731 ft²		
			Type: Continuous		
			Cleaning Cycle: Shaker		
			Type of Filter: Dacron Bags		
			Min Collection Eff: 99%		
Mix Delivery System (Building10B) and C3M Furnace Mix System (Buildings 10, 10A, 21) Group 002					
Fugitives	Building Control/Covered Conveyors	002-07	Mix Delivery System to C3M Furnace Mix System to Furnaces 3, 6, 7, 9, 14, 15, and 16	Nominal Capacity: 300 tons/hr	Installed 4/1/1996
			Mix Delivery System consists of:		
			Railcar Unloading to Unloading		
			Unloading Bin #1 and Unloading Bin #2		
			Unloading Bin #1 to Apron Conveyor #1		
			Unloading Bin #2 to Apron Conveyor #2		
			Apron Conveyors #1 and #2 to 48” Pocket Belt #1		
			48” Pocket Belt #1 to 36” By Pass Conveyor and Inclined Screen		
			36” in Bypass Conveyor to 36” Fines Conveyor and 48” Pocket Belt #8		
			36” Fines Conveyor to Fines Bin Coal and Fines Bin Sand		
			Fines Bin Coal and Fines Bin Sand to Fines Bin Loadout		
			Inclined Screen to 36” Fines Conveyor (See Above Loop) and 48” Pocket Belt #8		
			48” Pocket Belt #8 to C3M Furnace Mix System		

ATTACHMENT D - Title V Equipment Table (includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)					
Emission Point ID <sup>1</sup>	Control Device <sup>1</sup>	Emission Unit ID <sup>1</sup>	Emission Unit Description	Design Capacity	Year Installed/ Modified
Fugitives from Building	Building Control	002-07	<b>C3M Furnace Mix System consists of:</b>	Nominal Capacity: 90 tons/hr	Installed 7/1/1935 Modified 7/1/1998
			from 48" Pocket Belt #8 to 36" Reversible Shuttle Conveyor #10		
			36" Reversible Shuttle Conveyor #10 to 48" Reversible Distributing Conveyor #12, Bin 309, Bin 310, Bin 311, and 36" North Feed Conveyor #13		
			48" Reversible Distributing Conveyor #12 to Bin 401, Bin 402, Bin 304, Bin 305, Bin 302&303, Bin 306 & 307, Bin 301, and Bin 308		
			Bin 401 to 36" Apron Conveyor #20		
			36" Apron Conveyor #20 to Weigh Hopper		
			Bin 402 to 36" Apron Conveyor #21		
			36" Apron Conveyor #21 to Weigh Hopper		
			Weigh Hopper to Vibrating Feeder		
			Vibrating Feeder to 30" Reversible Conveyor #1		
Fugitives from Building		002-07	Bin 301 to 30" Apron Feeder		
			30" Apron Feeder to Weigh Hopper		
			Bin 308 to 30" Apron Feeder		
			30" Apron Feeder to Weigh Hopper		
			Weigh Hopper to Vibrating Feeder		
			Vibrating Feeder to 30" Reversible Conveyor #1		
			30" Reversible Conveyor #1 to 36" Conveyor #2a		
			36" Conveyor #2a to 36" Conveyor #3a		
			36" Conveyor #3a to Weigh Hopper 8F		
			Weigh Hopper 8F to Skip Hoist		
Fugitives from Building	Building Control	002-07	Skip Hoist to 8F Tram Cars		Installed 7/1/1935
			8F Tram Cars to Furnace 14 Bins, Furnace 15 Bins, and Furnace 16 Bins		
			Furnace 14 Bins to Furnace 14		
			Furnace 15 Bins to Furnace 15		
			Furnace 16 Bins to Furnace 16		
			30" Reversible Conveyor #1 to 36" Conveyor #2		
			36" Conveyor #2 to Weigh Hopper 3F		
			Bin 309 to 30" Apron Conveyor #23		
			30" Apron Conveyor #23 to Weigh Hopper		
			Weigh Hopper to 30" Belt Feeder		
			30" Belt Feeder to 36" Conveyor #3		
			Bin 310 to Vibrating Feeder		
			Vibrating Feeder to Weigh Hopper		
			Weigh Hopper to Vibrating Feeder		
			Vibrating Feeder to 36" Conveyor #3		
			Bin 311 to 30" Apron Conveyor #22		
			30" Apron Conveyor #22 to Weigh Hopper		
			Weigh Hopper to Vibrating Feeder		
			Vibrating Feeder to 36" Conveyor #3		
			Bin 311 to 30" Apron Conveyor #22		
			Apron Conveyor #22 to Weigh Hopper		
			Weigh Hopper to Vibrating Feeder		
			Vibrating Feeder to 36" Conveyor #3		
			36" Conveyor #3 to Weigh Hopper 3 3F		
			36" North Feed Conveyor #13 to 36" Reversible Conveyor #14		
			36" Reversible Conveyor #14 to Bin 312&313, Bin 314, Bin 315 & 316 and 317&318, Bin 319&320, and Reject Chute		
			Bin 312&313 to 36" Apron Conveyor #312&313		
			36" Apron Conveyor #312&313 to Weigh Hopper		

ATTACHMENT D – Title V Equipment Table (includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)					
Emission Point ID <sup>1</sup>	Control Device <sup>1</sup>	Emission Unit ID <sup>1</sup>	Emission Unit Description	Design Capacity	Year Installed/Modified
			Weigh Hopper to Vibrating Feeder		
			Vibrating Feeder to 42" North Batching Conveyor		
			Bin 314 to 36" Apron Reversible Conveyor #314 and Scale Car		
			36" Apron Reversible Conveyor #314 to Weigh Hopper		
			Weigh Hopper to Vibrating Feeder		
			Vibrating Feeder to 42" North Batching Conveyor		
			Bin 315&316 and 317&318 to Vibrating Feeder and Scale Car		
			Vibrating Feeder to Weigh Hopper		
			Weigh Hopper to Vibrating Feeder		
			Vibrating Feeder to 42" North Batching Conveyor		
			Bin 319&320 to Vibrating Feeder and Scale Car		
			Vibrating Feeder to Weigh Hopper		
			Weigh Hopper to Vibrating Feeder		
			Vibrating Feeder to 42" North Batching Conveyor		
			42" North Batching Conveyor to 36" North Cross Conveyor		
			36" North Cross Conveyor to 36" North 3F Weigh Hopper Conveyor		
			36" North 3F Weigh Hopper Conveyor to Weigh Hopper 3F		
			Scale Car to Weigh Hopper 3F and Furnace 9 Skip Hoist		
			Weigh Hopper 3F to Skip Hoist		
			Skip Hoist to 3F Tram Cars		
Fugitives from Building	Building Control	002-07	3F Tram Cars to Furnace 3 Bins, Furnace 6 Bins, and Furnace 7 Bins		Installed 7/1/1935
			Furnace 3 Bins to Furnace 3 Conveyors and Furnace 3		
			Furnace 3 Conveyors to Furnace 3		
			Furnace 6 Bins to Furnace 6		
			Furnace 7 Bins to Furnace 7		
			Furnace 9 Skip Hoist to Furnace 9 Tram-Car		
Fugitives from Building	Building Control	002-07	Furnace 9 Tram Car to Furnace 9 Bins		Installed 7/1/1935
			Furnace 9 Bins to Furnace 9		
<b>Submerged Electric Arc Furnace Number 3 (Furnace 3) in Building 5 Group 003</b>					
Stacks 009 and Fugitives from Building	Baghouse / Building Control	003-01	Submerged Electric Arc Furnace and Tapping to Air Heat Exchanger	Nominal Capacity: 2.6 tons/hr	7/1/1972
			Manufacturer: UCC/Demag		
Fugitive	None	006-01	Cooling Tower from Furnace 3	Design Capacity: 900 gal/min	7/1/1973
			Manufacturer: Ecodyne Corp.		
Stack 009	Baghouse 3 (0005)	003-01	from Furnace 3 and Tapping to Air Heat Exchanger to Baghouse 3 (0005)	None Applicable	Not Applicable
Fugitives from Building	Work Practices/ Building Control	003-01	Tapping from Furnace 3, Metal Pouring (003-09), Slag Handling (005-01)	Nominal Capacity: 2.9 tons/hr	Not Applicable
Fugitives from Building	Work Practices/ Building Control	003-09	Metal Pouring (003-09), Tapping, Slag Handling (005-01)	Nominal Capacity: 2.9 tons/hr	Not Applicable
Fugitives from Building	Work Practices/ Building Control	005-01	Slag Handling (005-01), Metal Pouring (003-09), Slag Sales	Nominal Capacity: 0.3 ton/hr	Not Applicable

<b>ATTACHMENT D - Title V Equipment Table</b> <b>(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)</b>					
Emission Point ID <sup>1</sup>	Control Device <sup>1</sup>	Emission Unit ID <sup>1</sup>	Emission Unit Description	Design Capacity	Year Installed/Modified
Stack 009	NOTE: Fume (PM from Furnace 3) goes to Alloy Facility's Microsilica Facility and /or Off-Site Landfill	0005	Air Heat Exchanger to Baghouse 3 (0005) to Baghouse Dust Handling (004-09)	Design Capacity: 532,696 CFM @ 280 °F	Installed 7/1/1974 Modified 10/1/99 Reverse Air
			Manufacturer: Wheelabrator		
			Model No.: High Temperature, Structural		
			Compartments: 12		
			Total Cloth Area: 155,520 ft <sup>2</sup>		
			Type: Continuous		
			Cleaning Cycle: Reverse Air		
			Type of Filter: Glass Membrane		
			Min Collection Eff: 97%		
Fugitive	None	004-09	Baghouse 3 (0005) Dust Handling to Silo 7 to Slurry Truck (0021) and Fumes to Sales	Nominal Capacity: 1.25 tons/hr	7/1/1974
Fugitive	Baghouse	004-09 S7	Silo 7	Design Capacity: 8,000 ft <sup>3</sup>	7/1/1974
Fugitive	Slurry Truck Misc. Control Device	0021	Slurry Truck	None Applicable	Not Applicable
Stack 016; Stack 017	Baghouse 14 (0012) & 15 (0013)	004-09 S14	Silo 14 w/ Densification	Design Capacity: 9,800 ft <sup>3</sup>	Modified 8/1/2006
Stack 016; Stack 017	Baghouse 14 (0012) & 15 (0013)	Apollo 13	Apollo 13 Bagging Unit	Four (4) Tons	8/1/2006
Stack 016; Stack 017	Baghouse 14 (0012) & 15 (0013)	Bulk Truck Loading	Bulk Truck Loading	N/A	8/1/2006
<b>Submerged Electric Arc Furnace Number 6 (Furnace 6) (Building 5) Group 003</b>					
Stacks 010, 011, 012, and Fugitives from Building	Baghouses	003-03	Submerged Electric Arc Furnace 6 to Tapping	Nominal Capacity: 2.0 tons/hr	7/1/1935
Stacks 010, 011, 012, and Fugitives from Building	Work Practices/ Building Control	003-03	Tapping from Furnace 6, Metal Pouring (003-09), and Slag Handling (005-01)	Nominal Capacity: 2.0 tons/hr	Not Applicable
Fugitives from Building	Work Practices / Building Control	003-09	Metal Pouring (003-09), Slag Handling (005-01)	Nominal Capacity: 2.0 tons/hr	Not Applicable
Fugitive and Fugitives from Building	Work Practices/ Building Control	005-01	Slag Handling (003-09), Metal Pouring (005-01), Slag Sales	Nominal Capacity: 0.2 ton/hr	Not Applicable
Fugitive	None	004-09	Baghouses 5 (0006), 6 (0007), 7A (0008) Dust Handling to Silo 7, Slurry Truck (0021) and Fume to Sales	Nominal Capacity: 2.25 tons/hr	7/1/1964
Fugitive	Baghouse	004-09 S7	Silo 7	Design Capacity: 8,000 ft <sup>3</sup>	7/1/1974
Fugitive	Slurry Truck Misc. Control Device	0021	Slurry Truck	None Applicable	Not Applicable
<b>Submerged Electric Arc Furnace Number 7 (Furnace 7) (Building 5) Group 003</b>					
Stacks 010, 011, 012, and Fugitives from Building	Baghouses 5 - (0006), 6 - (0007), 7A - (0008)	003-04	Submerged Electric Arc Furnace 7 to Tapping	Nominal Capacity: 2.0 tons/hr	7/1/1935

ATTACHMENT D - Title V Equipment Table (includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)					
Emission Point ID¹	Control Device¹	Emission Unit ID¹	Emission Unit Description	Design Capacity	Year Installed/Modified
Stacks 010, 011, 012, and Fugitives from Building	Work Practices/ Building Control	003-04	Tapping from Furnace 7, Metal Pouring (003-09), and Slag Handling (005-01)	Nominal Capacity: 2.0 tons/hr	Not Applicable
Fugitives from Building	Work Practices/ Building Control	003-09	Metal Pouring (003-09), Tapping, Slag Handling (005-01)	Nominal Capacity: 2.0 tons/hr	Not Applicable
Fugitive and Fugitives from Building	Work Practices/ Building Control	005-01	Slag Handling (005-01), Metal Pouring (003-09), Slag Sales	Nominal Capacity: 0.2 ton/hr	Not Applicable
Fugitive	None	004-09	Baghouses 5 (0006), 6 (0007), 7A (0008), Dust Handling to Silo 7 to Slurry Truck (0021) and Fume to Sales	Nominal capacity: 2.25 tons/hr	7/1/1964
Fugitive	Baghouse	004-09 S7	Silo 7	Design Capacity: 8,000 ft³	7/1/1974
Fugitive	Slurry Truck Misc. Control	0021	Slurry Truck	None Applicable	Not Applicable
Baghouses for Submerged Electric Arc Furnace Numbers 6 & 7 – Group 003					
Stack 010	NOTE: Fume goes to Alloy Facility’s Microsilica Facility and /or Off-Site Landfill	0006	Baghouse 5 (0006) to Baghouse Dust Handling (004-09)	Design Capacity: 320,000 CFM @ 360 °F	Installed 7/1/1964 Modified 7/1/99 Reverse Air
			Manufacturer: Wheelabrator		
			Model No.: High Temperature, Structural		
			Compartments: 10		
			Total Cloth Area: 129,600 ft2		
			Type: Continuous		
			Cleaning Cycle: Reverse Air		
			Type of Filter: Glass Membrane		
Min Collection Eff: 97%					
Stack 011	NOTE: Fume goes to Alloy Facility’s Microsilica Facility and /or Off-Site Landfill	0007	Baghouse 6 (0007) to Baghouse Dust Handling (004-09)	Design Capacity: 320,000 CFM @ 360 °F	Installed 7/1/1973 Modified 4/1/99 Reverse Air
			Manufacturer: Wheelabrator		
			Model No.: High Temperature,		
			Compartments: 10		
			Total Cloth Area: 129,600 ft2		
			Type: Continuous		
			Cleaning Cycle: Reverse Air		
			Type of Filter: Glass Membrane		
Min Collection Eff: 97%					
Stack 012	NOTE: Fume goes to Alloy Facility’s Microsilica Facility and /or Off-Site Landfill	0008	Baghouse 7A (0008) to Baghouse Dust Handling (004-09)	Design Capacity: 320,000 CFM @ 360 °F	Installed 7/1/1970 Modified 4/1/2000 Reverse Air
			Manufacturer: Wheelabrator		
			Model No.: High Temperature, Structural		
			Compartments: 10		
			Total Cloth Area: 129,600 ft2		
			Type: Continuous		
			Cleaning Cycle: Reverse Air		
			Type of Filter: Glass Membrane		
Min Collection Eff: 97%					
Submerged Electric Arc Furnace Number 9 (Furnace 9) (Building 15) Group 003					
Stacks 015, 029, and Fugitives from Building	Baghouses 9 (0011) and 12	003-05	Submerged Electric Arc Furnace 9 to Tapping	Nominal Capacity: 2.6 tons/hr	7/1/1971
	Work Practices/ Building Control	003-05	Tapping from Furnace 9 to Metal Pouring (003-09), and Slag Handling (005-01)	Nominal Capacity: 2.6 tons/hr	Not Applicable
Fugitives from Building	Work Practices/ Building Control	003-09	Metal Pouring (003-09), Tapping, Slag Handling (005-01)	Nominal Capacity: 2.6 tons/hr	Not Applicable

<b>ATTACHMENT D - Title V Equipment Table</b> <b>(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)</b>					
Emission Point ID <sup>1</sup>	Control Device <sup>1</sup>	Emission Unit ID <sup>1</sup>	Emission Unit Description	Design Capacity	Year Installed/Modified
Fugitive and Fugitives from Building	Work Practices	005-01	Slag Handling (005-01), Metal Pouring 9003-09), Slag Sales	Nominal Capacity: 0.3 ton/hr	Not Applicable
Fugitive	None	004-09	Baghouses 9 (0011) and 12 (0024) Dust Handling to Slurry Truck (0021) and Fume to Sales	Nominal Capacity: 1.5 tons/hr	7/1/1972
Fugitive	Slurry Truck Misc. Control Device	0021	Slurry Truck	None Applicable	Not Applicable
<b>Submerged Electric Arc Furnace Number 14 (Furnace 14) (Building 19) Group 003</b>					
Stacks 016, 017, and Fugitives from Building	Baghouse 14 (0012) and 15 (0013)	003-06	Submerged Electric Arc Furnace 14 and Tapping to Air Heat Exchanger(s)	Nominal Capacity: 2.0 tons/hr	Installed 7/1/1941; Modified 11/1/02 New Electrode System Design
Stack 016	Baghouse 14 (0012)	003-06	Furnace 14 and Tapping to Air Heat Exchanger to Baghouse 0012 (0024)	None Applicable	Not Applicable
Stack 017	Baghouse 15 (0013)	003-06	Furnace 14 and Tapping to Air Heat Exchanger to Baghouse 14 (0013)	None Applicable	Not Applicable
Stacks 016 and/or 017, and Fugitives from Building	Work Practices/ Building Control	003-06	Tapping from Furnace 14 to Metal Pouring (003-09) and Slag Handling (005-01)	Nominal Capacity: 2.0 tons/hr	Not Applicable
Fugitives from Building	Work Practices/ Building Control	003-09	Metal Pouring (003-09), Tapping, Slag Handling (005-01)	Nominal Capacity: 2.0 tons/hr	Not Applicable
Fugitive and Fugitives from Building	Work Practices	005-01	Slag Handling (005-01), Metal Pouring (003-09), Slag Sales	Nominal Capacity: 0.2 ton/hr	Not Applicable
Fugitive	None	004-09	Baghouse 14 (0012) and/or Baghouse 15 (0013) Dust Handling to Silo 14 to Slurry Truck (0021) and Silo 7 to Fume to Sales	Nominal Capacity: 0.75 ton/hr each	Not Applicable
Stack 016; Stack 017	Baghouse 14 (0012) & 15 (0013)	004-09 S14	Silo 14 with Densification	Design Capacity: 9,800 ft <sup>3</sup>	7/1/1974
Fugitive	Slurry Truck Misc. Control	0021	Slurry Truck	None Applicable	Not Applicable
Stack 016; Stack 017	Baghouse 14 (0012) & 15	Apollo 13	Apollo 13 Bagging Unit	Four (4) Tons	8/1/2006
Stack 016; Stack 017	Baghouse 14 (0012) & 15	Bulk Truck Loading	Bulk Truck Loading	NA	8/1/2006
<b>Submerged Electric Arc Furnace Number 15 (Furnace 15) (Building 19) Group 003</b>					
Stacks 016, 017, and Fugitives from Building	Baghouses	003-07	Submerged Electric Arc Furnace 15 to Tapping and Air Exchanger(s)	Allowable Limits: 18,000 TPY Nominal Capacity: 2.0 tons/hr	Installed 7/1/1941 Modified 7/15/1998 Increased Capacity
Stack 016	Baghouse 14 (0012)	003-06	Furnace 15 and Tapping to Air Heat Exchanger to Baghouse 14 (0012)	Nominal Capacity: 2.0 tons/hr	Not Applicable
Stack 017	Baghouse 15 (0013)	003-06	Furnace 15 and Tapping to Air Heat Exchanger to Baghouse 15 (0013)	None Applicable	Not Applicable
Stacks 016 and/or 017, and Fugitives from Building	Work Practices/ Building Control	003-07	Tapping Furnace 15, Metal Pouring (003-09), Slag Handling (005-01)	Nominal Capacity: 2.0 tons/hr	Not Applicable
Fugitives from Building	Work Practices/ Building Control	003-09	Metal Pouring (003-09), Tapping, Slag Handling (005-01)	Nominal Capacity: 2.0 tons/hr	Not Applicable

<b>ATTACHMENT D - Title V Equipment Table</b> <b>(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)</b>					
<b>Emission Point ID<sup>1</sup></b>	<b>Control Device<sup>1</sup></b>	<b>Emission Unit ID<sup>1</sup></b>	<b>Emission Unit Description</b>	<b>Design Capacity</b>	<b>Year Installed/Modified</b>
Fugitive and Fugitives from Building	Work Practices/ Building Control	005-01	Slag Handling (005-01), Metal Pouring (003-09), Slag Sales	Nominal Capacity: 0.2 ton/hr	Not Applicable
Fugitives	None	004-09	Baghouse 14 (0012) and/or Baghouse 15 (0013) Dust Handling to Silo 14 to Slurry Truck (0021) and Silo 7 to Fume to Sales	Nominal Capacity: 0.75 ton/hr each	Not Applicable
Stack 016; Stack 017	Baghouse 14 (0012) & 15 (0013)	004-09 S14	Silo 14 with Densification	Design Capacity: 9,800 ft <sup>3</sup>	7/1/1974
Fugitive	Slurry Truck Misc. Control Device	0021	Slurry Truck	None Applicable	Not Applicable
Stack 016; Stack 017	Baghouse 14 (0012) & 15 (0013)	Apollo 13	Apollo 13 Bagging Unit	Four (4) Tons	8/1/2006
Stack 016; Stack 017	Baghouse 14 (0012) & 15 (0013)	Bulk Truck Loading	Bulk Truck Loading	NA	8/1/2006
<b>Submerged Electric Arc Furnace Numbers 16 (Furnace 16) (Building 19) Group 003</b>					
Stacks 016, 017, and Fugitives from Building	Baghouses	003-08	Submerged Electric Arc Furnace 16 to Tapping and Air Exchanger(s)	Nominal Capacity: 0.6 tons/hr	7/1/1941
Stack 016	Baghouse 12 (0024)	003-06	Air Heat Exchanger to Baghouse 12 (0024)	None Applicable	Not Applicable
Stack 017	Baghouse 15 (0013)	003-06	Air Heat Exchanger to Baghouse 15 (0013)	None Applicable	Not Applicable
Stacks 016 and/or 017, and Fugitives from Building	Work Practices/ Building Control	003-08	Tapping Furnace 16, Metal Pouring (003-090), Slag Handling (005-01)	Nominal Capacity: 0.6 ton/hr	Not Applicable
Fugitives from Building	Work Practices/ Building Control	003-09	Metal Pouring (003-09), Tapping, Slag Handling (005-01)	Nominal Capacity: 0.6 ton/hr	Not Applicable
Fugitives from Building	Work Practices/ Building Control	005-01	Slag Handling (005-01), Metal Pouring (003-09), Slag Sales	Nominal Capacity: 0.06 ton/hr	Not Applicable
Fugitive	None	004-09	Baghouse 14 (0012) and/or Baghouse 15 (0013) Dust Handling to Silo 14 to Slurry Truck (0021) and Silo 7 to Fumes to Sales	Nominal Capacity: 0.75 ton/hr each	Not Applicable
Fugitive	Baghouse	004-09 S14	Silo 14	Design Capacity: 9,800 ft <sup>3</sup>	7/1/1974
Fugitive	Slurry Truck Misc. Control Device	0021	Slurry Truck	None Applicable	Not Applicable

ATTACHMENT D - Title V Equipment Table (includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)					
Emission Point ID¹	Control Device¹	Emission Unit ID¹	Emission Unit Description	Design Capacity	Year Installed/Modified
Baghouses for Submerged Electric Arc Furnaces 14, 15, 16 - Group 003					
Stack 016	NOTE: Fume goes to Alloy Facility's Microsilica Facility and /or Off-Site Landfill	0012	Heat Exchanger to Baghouse 14 (0012) to Baghouse Dust Handling (004-09)	Design Capacity: 451,454 CFM @ 360 °F	Installed 7/1/1974 Modified 7/1/98
			Manufacturer: Wheelabrator		
			Model No.: High Temperature, Structural		
			Compartments: 12		
			Total Cloth Area: 155,520 ft2		
			Type: Continuous		
			Cleaning Cycle: Reverse Air		
			Type of Filter: Glass Membrane		
Stack 017	NOTE: Fume goes to Alloy Facility's Microsilica Facility and /or Off-Site Landfill	0013	Heat Exchanger to Baghouse 15 (0013) to Baghouse Dust Handling (004-09)	Design Capacity: 451,454 CFM @ 360 °F	Installed 7/1/1974 Modified 4/1/98
			Manufacturer: Wheelabrator		
			Model No.: High Temperature, Structural		
			Compartments: 12		
			Total Cloth Area: 155,520 ft2		
			Type: Continuous		
			Cleaning Cycle: Reverse Air		
			Type of Filter: Glass Membrane		
Fugitive	None	004-09	Baghouse 14 (0012) and/or Baghouse15 (0013) Dust Handling (004-09) to Silo 14 to Slurry Truck (0021) and Silo 7 to Fume to Sales	Nominal Capacity: 0.75 ton/hr each	Not Applicable
			Fugitive		
C7P Impactor and Baghouse Dust Handling (Building 15A) Group 004					
Fugitive	None	004	Product Storage to Product Loading (004-08)	None Applicable	Not Applicable
Stack 022 and Fugitives from Building	Baghouse	004-02	C7P Impactor (004-02), Bin and Conveyor System, and Baghouse Dust Handling (004-09) consists of:	Design Capacity: 1.5 tons/hr	7/1/1941
			System Manufacturer: Pennsylvania Impactor		
			Feed Bin to Vibratory Feeder		
			Vibratory Feeder to Elevator		
			Elevator to Screen Box 1		
			Screen Box 1 to Screen Box 2		
			Screen Box 2 to Impactor Hammer Mill and Product Storage Piles (004-10)		
			Impactor Hammer Mill to Elevator		
			Model No.: C-5-35		
			Bin 1 to Conveyor 1		
			Bin 2 to Conveyor 2		
			Conveyor 1 and Conveyor 2 to Conveyor 3		
Conveyor 3 to Product Loading (004-08)					
Fugitives from Building	Building Control	004-10	Product Storage Piles to Product Loading (004-08)	None Applicable	7/1/1941
Fugitive and Fugitives from Building	Building Control	004-08	Product Loading	None Applicable	7/1/1941
Stack 022	NOTE: Dust Packaged for Sales and/or Off-Site Landfill	0017	C7P Impactor Baghouse (0017) to Baghouse Dust Handling (004-09); Buildings 60 and 61	Design Capacity: 12,000 CMF @ 90°F	7/1/1991
			System Manufacturer: Fuller		
			Model No.: Plenum Pulse		
			Compartments: 4		
			Total Cloth Area: 2,009 ft2		
			Type: Continuous		
			Cleaning Cycle: Pulse Air		
			Type of Filter: Fabric		
			Min Collection Eff: 99%		
			Low Temperature		



<b>ATTACHMENT D - Title V Equipment Table</b> <b>(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)</b>					
Emission Point ID <sup>1</sup>	Control Device <sup>1</sup>	Emission Unit ID <sup>1</sup>	Emission Unit Description	Design Capacity	Year Installed/Modified
Fugitive	None	004-09	Dust Collector C7P Impactor Dust Handling (004-09) to Slurry Truck (0021) and Dust to Sales	None Applicable	Not Applicable
Fugitive	Slurry Truck Misc. Control Device	0021	Slurry Truck	None Applicable	Not Applicable
<b>C7P Multi-Stage Crusher (Building 15A) Group 004</b>					
Stacks 023 and Fugitives from Building	Baghouse/ Building Control	004-03	C7P Multi-Stage Crusher consists of:	Design Capacity: 50 tons/hr	Installed 7/1/1936 Modified 10/1/2003 Replaced Vibratory Feeder with Conveyor
			Feed Hooper to Armored Feeder		
			Model No.: C-5-35		
			Armored Feeder to Belt Conveyor		
			Belt Conveyor to Jaw Crusher		
			Jaw Crusher to Vibratory Feeder 1		
			Manufacturer: Traylor		
			Type: HB 30" X 42"		
			Vibratory Feeder 1 to Pocket Belt		
Stacks 024 and Fugitives from Building	Baghouse/ Building Control	004-03	Pocket Belt to Chute	None Applicable	Not Applicable
			Chute from Pocket Belt to 48" Crusher		
			48" Crusher to 2 X 10 Belt		
			Manufacturer: Telesmith: Baber- Green		
			Type: 48" Gyrator		
			2 X 10 Belt to #1 Bucket Elevator		
			#1 Bucket Elevator to #1 Screen Box		
			#1 Screen Box to Floor Skips and to 36" Crusher and to Conveyor		
			Floor Skips		
			36" Crusher to Recycle Belt		
			Manufacturer: Telesmith: Baber- Green		
			Type: Grasphere		
			Recycle Belt to #3 Bucket Elevator		
			#3 Bucket Elevator to #2 Screen		
			#2 Screen to Floor Skips and Car Loading Belt		
Stacks 024, Fugitives, and Fugitives from Building	Baghouse/ Building Control	004-08	Floor Skips	None Applicable	Not Applicable
			Product Loading		
Fugitive and Fugitives from Building	Building Control for Inside Product Storage and Loading	004-10	Product Storage Piles to Product Loading (004-08) and C7P Fines Screener NOTE: C7P Fines Screener is a portable conveyor used in C7P beginning in 2002 for product loading into trucks.	None Applicable	Not Applicable
Stack 023	NOTE: Dust Packaged for Sales and/or Off-Site Landfill	0015	C7P Load Hopper Baghouse (0015) to Baghouse Dust Handling (004-09)	Design Capacity: 30,000 CFM @ 90°F	7/1/1968
			Manufacturer: Fuller		
			Model No.: Plenum Pulse		
			Compartments: 14		
			Total Cloth Area: 7,033 ft <sup>2</sup>		
			Type: Continuous		
			Cleaning Cycle: Pulse Air		
			Type of Filter: Fabric		
			Min Collection Eff: 99%		
			Low Temperature		

ATTACHMENT D - Title V Equipment Table (includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)					
Emission Point ID¹	Control Device¹	Emission Unit ID¹	Emission Unit Description	Design Capacity	Year Installed/Modified
Stack 024	NOTE: Dust Packaged for Sales and/or Off-Site Landfill	0016	C7P Load Hopper Baghouse (0016) to Baghouse Dust Handling (004-09)	Design Capacity: 30,000 CFM @ 90°F	7/1/1994
			Manufacturer: Fuller		
			Model No.: Plenum Pulse		
			Compartments: 6		
			Total Cloth Area: 4,875 ft²		
			Type: Continuous		
			Cleaning Cycle: Pulse Air		
			Type of Filter: Fabric		
			Min Collection Eff: 99%		
			Low Temperature		
Fugitives	None	004-09	Baghouse C7P Multistage Crusher to Dust Handling to Slurry Truck (0021) and Dust to Sales	None Applicable	Not Applicable
Fugitives	Slurry Truck Misc. Control Device	0021	Slurry Truck	None Applicable	Not Applicable
C6F Sizing and Cleaning (Building 20) Group 004					
Sack 021	Building Control	004	Product Storage to Product Loading	None Applicable	Not Applicable
Stacks 008 and Fugitives from Building	Baghouse/ Building Control	004-04	C6F Sizing and Cleaning consists of:	Design Capacity: 12.5 tons/hr	7/1/1939
			Manufacturer: Eliptex and Hewitt- Robins		
			Feed Bin to Conveyor		
			Conveyor to “A” Table		
			“A” Table to “C” Table		
			Model No.: 36-188		
			“B” Table to Product loading (004- 08)		
			Model No.: 228		
			“C” Table to Table “B”		
			Model No.: 176		
Fugitives from Building	Building Control	004-08	Product Loading	None Applicable	Not Applicable
Stack 008	Baghouse	0014	Baghouse 34 (0014) to Baghouse Dust Handling (004-09) (See Section 002-06 for Description)	Design Capacity: 99,360 CFM @ 90°F	7/1/1972
Fugitive	None	004-09	Baghouse 34 (0014) to Dust Handling to Slurry Truck (0021) and Dust to Sales	None Applicable	Not Applicable
Fugitive	Slurry Truck Misc. Control Device	0021	Slurry Truck	None Applicable	Not Applicable
C3P Multistage Crusher (Building 5A) Group 004					
Fugitives from Building	Building Control	004	Product Storage to Dump Hopper with Vibratory Feeder and Fines or Product Loading (004-08)	None Applicable	Not Applicable
Stacks 025 and Fugitives from Building	Baghouse	004-05	C3P Multistage Crusher consists of:	Design Capacity: 50 tons/hr	Installed 7/1/1945 Modified in 2002 Bin Storage/ Conveyor / Product Loading
			Dump Hopper with Vibratory Feeder to Belt Conveyor 1		
			Belt Conveyor 1 to 36” Jaw Crusher		
			36” Jaw Crusher to Belt Conveyor 2		
			Manufacturer: Birdsboro		
			Belt Conveyor 2 to Screen Box		
			Screen Box to 36” Gyro Crusher and Fines 1 Loading Station (004-08)		
			36” Gyrotory Crusher to Belt Conveyor 3 and Conveyor 4		
			Manufacturer: Allis Chambers		
			Conveyor 4 to Bin 1 and Bin 2		
			Bin 1 and Bin 2 to Fines and Product Loading (004-08)	Design Capacity: Bins 1&2: 100 ton Capacity	
			Belt Conveyor 3 to Belt Conveyor 2 (Recycle)		

ATTACHMENT D - Title V Equipment Table (includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)					
Emission Point ID <sup>1</sup>	Control Device <sup>1</sup>	Emission Unit ID <sup>1</sup>	Emission Unit Description	Design Capacity	Year Installed/Modified
Stack 025A		0018A	C3P Baghouse Manufacturer: Carco-Tech Model No.: 39-15-13-111945-TWH Control Eff.: 99.9%	60,000 CFM	2008
Fugitive	Building Control	004-08	Fines or Product Loading	None Applicable	Not Applicable
<b>C3P Drum Packing Station (Building 5A) Group 004</b>					
Fugitives from Building	Building Control	004	Product Storage to Vibratory Feeder and Product Loading (004-08)	None Applicable	Not Applicable
Stacks 025 and Fugitives from Building	Baghouse	004-06	C3P Drum Packing Station consists of:	Design Capacity: 5 tons/hr	7/1/1932
			System Manufacturer: Jeffrey		
			Dump Hopper with Vibratory Chute to Product Loading (004-08)		
Fugitives from Building		004-08	Product Loading	None Applicable	
Stack 025A		0018A	C3P Baghouse (Refer to Emission Unit ID 004-05)		2008
<b>C3P 4 x 20 Crusher (Building 5A) Group 004</b>					
Fugitives from Building	Building Control	004	Product Storage to 4 X 20 Crusher and Product Loading (004-08)	None Applicable	Not Applicable
Stack 025 and Fugitives from Building	Baghouse	004-07	C3P 4 X 20 Crusher consists of:	Design Capacity: 1.5 tons/hr	7/1/1943
			System Manufacturer: Earle & Bacon		
			4 X 20 Crusher to Screen Box		
Fugitives from Building	Building Control	004-08	Screen Box to Product loading (004- 08)	None Applicable	
Stack 025A	Not Applicable	0018A	Product Loading		
Stack 025A		0018A	C3P Baghouse (Refer to Emission Unit ID 004-05)		2008
<b>Stockpiles, Roadways, and Landfill Group 005</b>					
Fugitive	None	005-01	Slag Handling to Slag Sales – Remelts Stockpiles from Furnace Tapping/Casting Processes	None Applicable	Not Applicable
Fugitive	Sweeper Trucks	005-02	Plant Roadways	None Applicable	Not Applicable
<b>Miscellaneous - Group 006</b>					
Fugitives	None	006-01	Furnace 3 Cooling Tower	Design Capacity: 90 gal/min	7/1/1973
			Manufacturer: Ecodyne Corp.		
			(Refer to Section 003-01)		
Fugitives from Building	Canister Dust Collector/ Building Control	006-02	C3F Ladle Lining Pit	Design Capacity: 1.5 tons/hr	3/5/1996
			Manufacturer: Blastcrete Corp. (Building 5)		
			Model: 1G020		
			Serial No.: 98287		
			Dust Collector for C3F Ladle Lining		
			Manufacturer: Donaldson Toit Built		
Fugitives from Building	Building Control	006-03	Model: 3EA-24741-00	None Applicable	12/31/1992
			Type: Cyclone		
			Cleaning: Shaker mechanism into a removable canister.		
Cyclone	Cyclone	006-04	Ladle Dig-Out	None Applicable	7/1/1990
			Manufacturer: Kent Air Tools		
			Model: KHB-5C		
Fugitives from Building	None	006-05	Serial No.: 316HD		
Fugitives from Building	None	006-05	Lab. Herzog Sample Prep. (Bldg 5B)	None Applicable	
Fugitives from Building	None	006-05	Manufacturer: Herzog		
Fugitives from Building	None	006-05	Sample Prep. Crushing	None Applicable	7/1/1940
Fugitives from Building	None	006-06	Lance Pipes	None Applicable	Not Applicable
Fugitives from Building	None	006-07	Furnace 3 Ladle Preheater	Nominal Capacity: 4 MM Btu/hr	1970's
			Manufacturer: Hotwork		
			Model: HV-600-PU 251		

ATTACHMENT D - Title V Equipment Table (includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)					
Emission Point ID <sup>1</sup>	Control Device <sup>1</sup>	Emission Unit ID <sup>1</sup>	Emission Unit Description	Design Capacity	Year Installed/Modified
Fugitives from Building	None	006-08	Furnace 6 & 7 Ladle Preheater Manufacturer: Shelter and Brink Model: 94763	Nominal Capacity: 6 MM Btu/hr	1970's Replaced 1995
0019 Stack	Not Applicable	006-04	Lab Herzog Cyclone Type: Simple Feed Method: Tangential Number of Units: 1	None Applicable	7/1/1990
Fugitives from Building	None	006-09	Furnaces 14&15 Ladle Preheater Manufacturer: Shelter and Brink Model: 94763	Nominal Capacity: 6 MM Btu/hr	1970's Replaced 1994
Fugitives from Building	None	006	Carbon Paste Pan Mill Manufacturer: Stevens Pan Mill	Nominal Capacity 240 TPY	1950
<b>Wet Slurry Microsilica Facility (Building 155) Group 006</b>					
Fugitive	Baghouse	004-09 S7	Silo Number 7	Design Capacity: 8,000 ft <sup>3</sup>	7/1/1974
MS-1C	Baghouse and Water Spray	MS-1	Wet Slurry Mixing Facility is in a Building that is Adjacent to Silo No. 7 Design Water Flow: 482 gallons per hour	Allowable Limits: 10,000 TPY	10/1/1983
MS-1E	Not Applicable	MS-1C	Backup Baghouse Dust Control Device - Dust Ducted to Silo 7 Manufacturer: DCE Vokes Model No.: DLM V20/10 F5 Compartments: 1 Total Cloth Area: 215 ft <sup>2</sup> Type: Continuous Automatic Cleaning Cycle: Compressed Air Pulse Jets Type of Filter: Felt Fabric Pad Supported on a Rigid Mesh Frame or Insert that is Weather Proof and Insertable Air to Cloth Ratio: 9.3 to 1 ft/min Min Collection Eff: 99%	Design Capacity: 2,000 CFM @ 300°F	10/1/1983
None	None	MS3	Microsilica Slurry Loading Building	Design Capacity: 10,000 TPY	8/15/1985
<b>Dry Mixing Facility (Building 156) Group 006</b>					
Fugitive	Baghouse	004-09 (S7)	Silo Number 7	Design Capacity: 8,000 ft <sup>3</sup>	7/1/1974
DM-1C and Fugitive	Baghouse	DM-1	Dry Microsilica Rotary Classifier	Allowable Limits: 30,000 TPY	9/12/1989
DM-1E and Fugitive	Baghouse	DM-1C	Dry Microsilica Rotary Classifier – Baghouse Manufacturer: Research Contrell Flex Kleen Model No.: 100-CTWC-154 (IIIG) Compartments: 1 Total Cloth Area: 1,956 ft <sup>2</sup> Type: Continuous Automatic Cleaning Cycle: Compressed Air Pulse Jets Type of Filter: 16 oz Polyester Singed Felt, Caged Air to Cloth Ratio: 3.06 ft/min Min Collection Eff: 99%	Design Capacity: 7,500 CFM @ 70 °F	9/12/1989
DM-2C and Fugitive	Baghouse	DM-2	Dry Microsilica Building Central	Design Capacity: 30,000 TPY	9/12/1989

ATTACHMENT D - Title V Equipment Table (includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)					
Emission Point ID <sup>1</sup>	Control Device <sup>1</sup>	Emission Unit ID <sup>1</sup>	Emission Unit Description	Design Capacity	Year Installed/Modified
DM-2E	Baghouse	DM-2C	Dry Microsilica Building Central Baghouse Filter for Bagging Operation and Control of Dust within Building and for Bulk loading Operations	Design Capacity: 4,200 CFM @ 70 °F	9/12/1989
			Manufacturer: Research Contrell Flex Kleen		
			Model No.: 100-WSWC-121-IIIG		
			Compartments: 1		
			Total Cloth Area: 1,537 ft <sup>2</sup>		
			Type: Continuous Automatic		
			Cleaning Cycle: Compressed Air Pulse Jets		
			Type of Filter: 16 oz Polyester Singed Felt, Caged		
			Air to Cloth Ratio: 2.76 ft/min		
			Min Collection Eff: 99%		
			Pneumatic Conveyor to Air Densification Silo		
DS-1C	Baghouse	DS-1	Air Densification Silo Number 1	Design Capacity: 15,000 TPY	9/12/1989
DS-1E	Baghouse	DS-1C	Air Densification Silo Number 1 Vent (Baghouse) – Microsilica is Densified by Air Turbulence	Design Capacity: 950 CFM @ 70 °F	9/12/1989
			Manufacturer: Research Contrell Flex Kleen		
			Model No.: 100-BVTC-25 (IIG)		
			Compartments: 1		
			Total Cloth Area: 318 ft <sup>2</sup>		
			Type: Continuous Automatic		
			Cleaning Cycle: Compressed Air Pulse Jets		
			Type of Filter: 16 oz Polyester Singed Felt, Caged		
			Air to Cloth Ratio: 2.98 ft/min		
			Min Collection Eff: 99%		
DS-2C	Baghouse	DS-2	Air Densification Silo Number 2	Design Capacity: 15,000 TPY	9/15/1993
DS-2E	Baghouse	DS-2C	Air Densification Silo Number 2 Vent (Baghouse) – Microsilica is Densified by Air Turbulence	Design Capacity: 950 CFM @ 70 °F	9/15/1993
			Manufacturer: Research Contrell Flex Kleen		
			Model No.: 100-BVTS-25 (IIG)		
			Compartments: 1		
			Total Cloth Area: 318 ft <sup>2</sup>		
			Type: Continuous Automatic		
			Cleaning Cycle: Compressed Air Pulse Jets		
			Type of Filter: 16 oz Polyester Singed Felt, Caged		
			Air to Cloth Ratio: 3.14 ft/min		
			Min Collection Eff: 99%		
DM-2E and Fugitives from Building	Baghouse	DM-2C	Air Densification Silos to Paper Bagging Operation or Super-Sack Station via Pneumatic Conveyor or Bulk Loading to Railcars or Trucks	Design Capacity: 30,000 TPY	9/12/1989
<sup>1</sup> For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.					

# **Attachment E**

## Emission Unit Forms

<b>ATTACHMENT E - Emission Unit Form</b>			
<b>Emission Unit Description 002-05 Fugitive</b>			
<b>Emission unit ID number:</b> 002-05	<b>Emission unit name:</b> Raw Material Storage Piles	<b>List any control devices associated with this emission unit:</b> NA	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b> Raw Material Storage Piles			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 7 Acres			
<b>Maximum Hourly Throughput:</b> 7 Acres	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements.

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes        No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 002-06 Stack 008 and Fugitive From Building

<b>Emission unit ID number:</b> 002-06	<b>Emission unit name:</b> C6M Mix System	<b>List any control devices associated with this emission unit:</b> Baghouse 34 (0014) and Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
 C6M Mix System consists of Unloading Pit, Conveyor Elevator, Bin 1, Bin 2, Bin 3, Bin 4, Conveyor, and Loading Station

<b>Manufacturer:</b> Jeffrey	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 07/01/1941	<b>Installation date:</b> 07/01/1941	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 16.6 Tons/hr

<b>Maximum Hourly Throughput:</b> 16.6 Tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data** (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b> ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes    \_\_\_ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

<b>ATTACHMENT E - Emission Unit Form</b>			
<b>Emission Unit Description 0014 Stack 008</b>			
<b>Emission unit ID number:</b> 0014	<b>Emission unit name:</b> Baghouse 34	<b>List any control devices associated with this emission unit:</b> NA	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b> Baghouse 34 (0014), 6 Compartments, 55, 731 ft2 total cloth area, cleaning cycle is shaker, Dacron Bags for type of filter, min. collection Eff: 99%			
<b>Manufacturer:</b> Wheelabrator	<b>Model number:</b> High Temperature, Structural	<b>Serial number:</b> NA	
<b>Construction date:</b> 07/01/1972	<b>Installation date:</b> 07/01/1972	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 99,360 CFM @ 90°F			
<b>Maximum Hourly Throughput:</b> 99,360 CFM @ 90°F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description 002-07 Fugitives*

<b>Emission unit ID number:</b> 002-07	<b>Emission unit name:</b> Mix Delivery System	<b>List any control devices associated with this emission unit:</b> Building Control/ Covered Conveyors
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Mix Delivery System consists of railcar unloading to unloading unloading Bin #1 and Unloading Bin # 2, Unloading Bin #1 to Apron Conveyor #1, Unloading Bin #2 to Apron Conveyor #2, Apron Conveyors #1 and #2 to 48" Pocket Belt #1, 48" Pocket Belt #1 to 36" By Pass Conveyor and Inclined Screen, 36" in By Pass Conveyor to 36" Fines Conveyor and 48" Pocket Belt #8, 36" Fines Conveyor to Fines Bin Coal and Fine Bin Sand, Fines Bin Coal and Fines Bin Sand to Fines Bin Loadout, Inclined Screen to 36" Fines Conveyor (see above loop) and 48" Pocket Belt #8, 48" Pocket Belt #8 to C3M Furnace Mix System.

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 04/01/1996	<b>Installation date:</b> 04/01/1996	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 300 Tons/hr

<b>Maximum Hourly Throughput:</b> 300 Tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b>  ___ Indirect Fired ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value



## ATTACHMENT E - Emission Unit Form

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes        No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### **Emission Unit Description 002-07 Fugitives from Building**

<b>Emission unit ID number:</b> 002-07	<b>Emission unit name:</b> C3M Furnace Mix System	<b>List any control devices associated with this emission unit:</b> Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

C3M Furnace Mix System consist of: From 48" Pocket Belt #8 to 36" Reversible shuttle Conveyor #10, 36" Reversible shuttle Conveyor #10 to 48" Reversible Distributing Conveyor #12, Bin 309, Bin 310, Bin 311, and 36" North Feed Conveyor #13, 48" Reversible Distributing Conveyor #12 to Bin 401, Bin 402, Bin 304, Bin 305, Bin 302 & 303, Bin 306 & 307, Bin 301, and Bin 308, Bin 401 to 36" Apron Conveyor #20, 36" Apron Conveyor #20 to Weigh Hopper, Bin 402 to 36" Apron Conveyor #21, 36" Apron Conveyor #21 to Weigh Hopper, Weigh Hopper to Vibrating Feeder, Vibrating Feeder to 30" Reversible Conveyor #1, Bin 301 to 30" Apron Feeder, 30" Apron Feeder to Weigh Hopper, Bin 308 to 30" Apron Feeder, 30" Apron Feeder to Weigh Hopper, Weigh Hopper to Vibrating Feeder, Vibrating Feeder to 30" Reversible Conveyor #1, 30" Reversible Conveyor #1 to 36" Conveyor #2a, 36" Conveyor #2a to 36" Conveyor #3a, 36" Conveyor #3a to Weigh Hopper 8F, Weigh Hopper 8F to Skip Hoist, Skip Hoist to 8F Tram Cars, 8F Tram Cars to Furnace 14 Bins, Furnace 15 Bins, and Furnace 16 Bins, Furnace 14 Bins to Furnace 14, Furnace 15 Bins to Furnace 15, Furnace 16 Bins to Furnace 16, 30" Reversible Conveyor #1 to 36" Conveyor #2, 36" Conveyor #2 to Weigh Hopper 3F, Bin 309 to 30" Apron Conveyor #23, 30" Apron Conveyor #23 to Weigh Hopper, Weigh Hopper to 30" Belt Feeder, 30" Belt Feeder to 36" Conveyor #3, Bin 310 to Vibrating Feeder, Vibrating Feeder to Weigh Hopper, Weigh Hopper to Vibrating Feeder, Vibrating Feeder to 36" Conveyor #3, Bin 311 to 30" Apron Conveyor #22, 30" Apron Conveyor #22 to Weigh Hopper, Weigh Hopper to Vibrating Feeder, Vibrating Feeder to 36" Conveyor #3, Bin 311 to 30" Apron Conveyor #22, Apron Conveyor #22 to Weigh Hopper, Weigh Hopper to Vibrating Feeder, Vibrating Feeder to 36" Conveyor #3, 36" Conveyor #3 to Weigh Hopper 3 3F, 36" North Feed Conveyor #13 to 36" Reversible Conveyor #14, 36" Reversible Conveyor #14 to Bin 312 & 313, Bin 314, Bin 315 & 316 and 317 & 318, Bin 319 & 320, and Reject Chute, Bin 312 & 313 to 36" Apron Conveyor #312 & 313, 36" Apron Conveyor #312 & 313 to Weigh Hopper, Weigh Hopper to Vibrating Feeder, Vibrating Feeder to 42" North Batching Conveyor, Bin 314 to 36" Apron Reversible Conveyor #314 and Scale Car, 36" Apron Reversible Conveyor #314 to Weigh Hopper, Weigh Hopper to Vibrating Feeder, Vibrating Feeder to 42" North Batching Conveyor, Bin 315 & 316 and 317 & 318 to Vibrating Feeder and Scale Car, Vibrating Feeder to Weigh Hopper, Weigh Hopper to Vibrating Feeder, Vibrating Feeder to 42" North Batching Conveyor, Bin 319 & 320 to Vibrating Feeder and Scale Car, Vibrating Feeder to Weigh Hopper, Weigh Hopper to Vibrating Feeder, Vibrating Feeder to 42" North Batching Conveyor, 42" North Batching Conveyor to 36" North Cross Conveyor, 36" North Cross Conveyor to 36" North 3F Weigh Hopper Conveyor, 36" North 3F weigh Hopper Conveyor to Weigh Hopper 3F, Scale Car to Weigh Hopper 3F and Furnace 9 Skip Hoist, Weigh Hopper 3F to Skip Hoist, Skip Hoist to 3F Tram Cars, 3F Tram Cars to Furnace 3 Bins, Furnace 6 Bins, and Furnace 7 Bins, Furnace 3 Bins to Furnace 3 Conveyors and Furnace 3, Furnace 3 Conveyors to Furnace 3, Furnace 6 Bins to Furnace 6, Furnace 7 Bins to Furnace 7, Furnace 9 Skip Hoist to Furnace 9 Tram Car, Furnace 9 Tram Car, to Furnace 9 Bins, Furnace 9 Bins to Furnace 9.

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01 /1935	<b>Installation date:</b> 07/01 /1935	<b>Modification date(s):</b> 07/01/1998

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**

90 Tons/hr

<b>Maximum Hourly Throughput:</b> 90 Tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  Indirect Fired      Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 003-01 Stacks 009 and Fugitives From Building

<b>Emission unit ID number:</b> 003-01	<b>Emission unit name:</b> Submerged Electric Arc Furnace	<b>List any control devices associated with this emission unit:</b> Baghouse/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
 Submerged Electric Arc Furnace and Tapping to Air Heat Exchanger

<b>Manufacturer:</b> UCC/Demag	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 07/01 /1972	<b>Installation date:</b> 07/01 /1972	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.6 Tons/hr

<b>Maximum Hourly Throughput:</b> 2.6 Tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b> ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes    \_\_\_ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 006-01 Fugitive

<b>Emission unit ID number:</b> 006-01	<b>Emission unit name:</b> Cooling Tower From Furnace 3	<b>List any control devices associated with this emission unit:</b> NA
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
Cooling Tower from Furnace 3

<b>Manufacturer:</b> Ecodyne Corp.	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 07/01 /1973	<b>Installation date:</b> 07/01 /1973	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 900 Gal/Min.

<b>Maximum Hourly Throughput:</b> 900 Gal/Min.	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

### **Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes    \_\_\_ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 003-01 Stack 009

<b>Emission unit ID number:</b> 003-01	<b>Emission unit name:</b> Furnace 3	<b>List any control devices associated with this emission unit:</b> Baghouse 3 (0005)
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
 From Furnace 3 and Tapping to Air Heat Exchanger to Baghouse 3 (0005)

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b> NA	<b>Type and Btu/hr rating of burners:</b> NA

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**  
 NA

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-2

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-3

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 003-01 Fugitives from Building

<b>Emission unit ID number:</b> 003-01	<b>Emission unit name:</b> Tapping from Furnace 3, Metal Pouring, Slag Handling	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
 Tapping from Furnace 3, Metal Pouring (003-09), Slag Handling (005-01)

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.9 Tons/hr

<b>Maximum Hourly Throughput:</b> 2.9 Tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
--	---

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

### **Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 003-09 Fugitives from Building

<b>Emission unit ID number:</b> 003-09	<b>Emission unit name:</b> Metal Pouring, Tapping, Slag Handling	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
 Metal Pouring (003-09), Tapping, Slag Handling (005-01)

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.9 Tons/hr.

<b>Maximum Hourly Throughput:</b> 2.9 Tons/hr.	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
--	---

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

### **Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 005-01 Fugitives from Building

<b>Emission unit ID number:</b> 005-01	<b>Emission unit name:</b> Slag Handling, Metal Pouring, Slag Sales	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
 Slag Handling (005-01), Metal Pouring (003-09), Slag Sales

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.3 Ton/hr.

<b>Maximum Hourly Throughput:</b> 0.3 Ton/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b> ___ Indirect Fired    ___ Direct Fired
--	---

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

### **Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

\_\_\_\_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes    \_\_\_\_ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description 0005 Stack 009*

<b>Emission unit ID number:</b> 0005	<b>Emission unit name:</b> Air Heat Exchanger	<b>List any control devices associated with this emission unit:</b> Note: Fume (PM from Furnace 3) goes to Alloy Facility's Microsilica Facility and/or WVES Landfill
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
 Air Heat Exchanger to Baghouse 3 (0005) to Baghouse Dust Handling (004-09), Compartments: 12, Total Cloth Area: 155,520 ft<sup>2</sup>, Type: Continuous, Cleaning Cycle: Reverse Air, Type of Filter: Glass Membrane, Min Collection Eff: 97%

<b>Manufacturer:</b> Wheelabrator	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 07/01/1974	<b>Installation date:</b> 07/01/1974	<b>Modification date(s):</b> 10/01 /1999
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**  
 532,696 CFM @ 280°F

<b>Maximum Hourly Throughput:</b> 532,696 CFM @ 280°F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

### **Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value



ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
<b>Emission Unit Description 004-09 Fugitive</b>			
<b>Emission unit ID number:</b> 004-09	<b>Emission unit name:</b> Baghouse 3 Dust Handling	<b>List any control devices associated with this emission unit:</b> NA	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b> Baghouse 3 (0005) Dust Handling to Silo 7 to Slurry Truck (0021) and Fumes to Sales			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> 07/01/1974	<b>Installation date:</b> 07/01/1974	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 1.25 Tons/hr			
<b>Maximum Hourly Throughput:</b> 1.25 Tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-09-S7 Fugitive

<b>Emission unit ID number:</b> 004-09-S7	<b>Emission unit name:</b> Silo 7	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
Silo 7

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 07/01/1974	<b>Installation date:</b> 07/01/1974	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 8,000 ft<sup>3</sup>

<b>Maximum Hourly Throughput:</b> 8,000 ft <sup>3</sup>	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes    \_\_\_ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.



## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0021 Fugitive

<b>Emission unit ID number:</b> 0021	<b>Emission unit name:</b> Slurry Truck	<b>List any control devices associated with this emission unit:</b> Slurry Truck Misc. Control Device
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
Slurry Truck

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
--	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-09 S14 Stack 016; Stack 017

<b>Emission unit ID number:</b> 004-09 S14	<b>Emission unit name:</b> Silo 14 w/Densification	<b>List any control devices associated with this emission unit:</b> Baghouse 14 (0012) & 15 (0013)
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
 Silo 14 w/Densification

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> 08/01/2006
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 9,800 ft<sup>3</sup>

<b>Maximum Hourly Throughput:</b> 9,800 ft <sup>3</sup>	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b> ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes    \_\_\_ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** Apollo 13 Stack 016; Stack 017

<b>Emission unit ID number:</b> Apollo 13	<b>Emission unit name:</b> Apollo 13 Bagging Unit	<b>List any control devices associated with this emission unit:</b> Baghouse 14 (0012) & 15 (0013)
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
 Apollo 13 Bagging Unit

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 08/01/2006	<b>Installation date:</b> 08/01/2006	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** Four (4) tons

<b>Maximum Hourly Throughput:</b> Four (4) tons	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b> ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** Bulk Truck Loading Stack 016; Stack 017

<b>Emission unit ID number:</b> Bulk Truck Loading	<b>Emission unit name:</b> Bulk Truck Loading	<b>List any control devices associated with this emission unit:</b> Baghouse 14 (0012) & 15 (0013)
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Bulk Truck Loading**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 08/01/2006	<b>Installation date:</b> 08/01/2006	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 003-03 Stacks 010,011, 012, and Fugitive From Building

<b>Emission unit ID number:</b> 003-03	<b>Emission unit name:</b> Submerged Electric Arc Furnace 6 to Tapping	<b>List any control devices associated with this emission unit:</b> Baghouses
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Submerged Electric Arc Furnace 6 to Tapping**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1935	<b>Installation date:</b> 07/01/1935	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.0 tons/hr

<b>Maximum Hourly Throughput:</b> 2.0 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes    \_\_\_ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 003-03 Stacks 010,011, 012, and Fugitive From Building

<b>Emission unit ID number:</b> 003-03	<b>Emission unit name:</b> Tapping from Furnace 6, Metal Pouring (003-09), and Slag Handling (005-01)	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Tapping from Furnace 6, Metal Pouring (003-09), and Slag Handling (005-01)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.0 tons/hr

<b>Maximum Hourly Throughput:</b> 2.0 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value



ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-2

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-3

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>ATTACHMENT E - Emission Unit Form</b>			
<b><i>Emission Unit Description</i></b> 003-09 Fugitives From Building			
<b>Emission unit ID number:</b> 003-09	<b>Emission unit name:</b> Metal Pouring (003-09), Slag Handling (005-01)	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Metal Pouring (003-09), Slag Handling (005-01)			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 2.0 tons/hr			
<b>Maximum Hourly Throughput:</b> 2.0 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b><i>Fuel Usage Data</i></b> (fill out all applicable fields)			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>     			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 005-01 Fugitive and Fugitive From Building

<b>Emission unit ID number:</b> 005-01	<b>Emission unit name:</b> Slag Handling (003-09), Metal Pouring (005-01), Slag Sales	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Slag Handling (003-09), Metal Pouring (005-01), Slag Sales

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.2 tons/hr

<b>Maximum Hourly Throughput:</b> 0.2 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions</p>		

***Applicable Requirements***

**List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.**

No source specific applicable equipment requirements

  X   Permit Shield

**For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

No specific monitoring/testing/recordkeeping/reporting on this equipment.

**Are you in compliance with all applicable requirements for this emission unit?**   X   Yes      No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 004-09 Fugitive

<b>Emission unit ID number:</b> 004-09	<b>Emission unit name:</b> Baghouses 5 (0006), 6 (0007), 7A (0008), Dust Handling to Silo 7, Slurry Truck (0021), and Fume to Sales	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Baghouses 5 (0006), 6 (0007), 7A (0008), Dust Handling to Silo 7, Slurry Truck (0021), and Fume to Sales**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1964	<b>Installation date:</b> 07/01/1964	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.25 tons/hr

<b>Maximum Hourly Throughput:</b> 2.25 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___Yes <u>X</u> No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes      No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>ATTACHMENT E - Emission Unit Form</b>			
<i>Emission Unit Description</i> 004-09 S7 Fugitive			
<b>Emission unit ID number:</b> 004-09 S7	<b>Emission unit name:</b> Silo 7	<b>List any control devices associated with this emission unit:</b> Baghouse	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Silo 7			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> 07/01/1974	<b>Installation date:</b> 07/01/1974	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 8,000 cf			
<b>Maximum Hourly Throughput:</b> 8,000 cf	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>     			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes    \_\_\_ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0021 Fugitive

<b>Emission unit ID number:</b> 0021	<b>Emission unit name:</b> Slurry Truck	<b>List any control devices associated with this emission unit:</b> Slurry Truck Misc. Control Device
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Slurry Truck

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

No specific monitoring/testing/recordkeeping/reporting on this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>ATTACHMENT E - Emission Unit Form</b>			
<b><i>Emission Unit Description</i></b> 003-04 Stacks 010, 011, 012, and Fugitives From Building			
<b>Emission unit ID number:</b> <b>003-04</b>	<b>Emission unit name:</b> <b>Submerged Electric Arc Furnace 7 to Tapping</b>	<b>List any control devices associated with this emission unit:</b> Baghouses 5 (0006), 6 (0007), and 7A (0008)	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  <b>Submerged Electric Arc Furnace 7 to Tapping</b>			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> 07/01/1935	<b>Installation date:</b> 07/01/1935	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 2.0 tons/hr			
<b>Maximum Hourly Throughput:</b> 2.0 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b><i>Fuel Usage Data (fill out all applicable fields)</i></b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>   			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-2

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-3

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>ATTACHMENT E - Emission Unit Form</b>			
<b><i>Emission Unit Description</i></b> 003-04 Stacks 010,011, 012, and Fugitive From Building			
<b>Emission unit ID number:</b> 003-04	<b>Emission unit name:</b> Tapping from Furnace 7, Metal Pouring (003-09), and Slag Handling (005-01)	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Tapping from Furnace 7, Metal Pouring (003-09), and Slag Handling (005-01)			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 2.0 tons/hr			
<b>Maximum Hourly Throughput:</b> 2.0 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b><i>Fuel Usage Data (fill out all applicable fields)</i></b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>   			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 003-09 Fugitives From Building

<b>Emission unit ID number:</b> 003-09	<b>Emission unit name:</b> Metal Pouring (003-09), Tapping, Slag Handling (005-01)	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Metal Pouring (003-09) Tapping, Slag Handling (005-01)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.0 tons/hr

<b>Maximum Hourly Throughput:</b> 2.0 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value



ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 005-01 Fugitive and Fugitives From Building

<b>Emission unit ID number:</b> 005-01	<b>Emission unit name:</b> Slag Handling (005-01), Metal Pouring (003-09), Slag Sales	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Slag Handling (005-01), Metal Pouring (003-09), Slag Sales

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.2 tons/hr

<b>Maximum Hourly Throughput:</b> 0.2 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-09 Fugitive

<b>Emission unit ID number:</b> 004-09	<b>Emission unit name:</b> Baghouses 5 (0006), 6 (0007), 7A (0008), Dust Handling to Silo 7 to Slurry Truck (0021) and Fume to Sales	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Submerged Electric Arc Furnace 6 to Tapping**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1964	<b>Installation date:</b> 07/01/1964	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.25 tons/hr

<b>Maximum Hourly Throughput:</b> 2.25 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes      No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-09 S7 Fugitive

<b>Emission unit ID number:</b> 004-09 S7	<b>Emission unit name:</b> Silo 7	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Silo 7

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1974	<b>Installation date:</b> 07/01/1974	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 8,000 cf

<b>Maximum Hourly Throughput:</b> 8,000 cf	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b> ___ Indirect Fired    ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes    \_\_\_ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0021 Fugitive

<b>Emission unit ID number:</b> 0021	<b>Emission unit name:</b> Slurry Truck	<b>List any control devices associated with this emission unit:</b> Slurry Truck Misc. Control Device
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Slurry Truck

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0006 Stack 010

<b>Emission unit ID number:</b> 0006	<b>Emission unit name:</b> Baghouse 5 (0006) to Baghouse Dust Handling (004-09)	<b>List any control devices associated with this emission unit:</b>  NOTE: Fume goes to Alloy Facility's Microsilica Facility and/or WVES Landfill
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Baghouse 5 (0006) to Baghouse Dust Handling (004-09) consisting of 10 Compartments, Total Cloth Area of 129,600 sqft, Continuous Type, Reverse Air Cleaing Cycle, Glass Membrane Filter with a Min Collection Efficiency of 97%.**

<b>Manufacturer:</b> Wheelabrator	<b>Model number:</b> High Temperatures, Structural	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1964	<b>Installation date:</b> 07/01/1964	<b>Modification date(s):</b> 07/01/1999

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 32,000 CFM @ 360 F

<b>Maximum Hourly Throughput:</b> 32,000 CFM @ 360 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description 0007 Stack 011*

<b>Emission unit ID number:</b> 0007	<b>Emission unit name:</b> Baghouse 6 (0007) to Baghouse Dust Handling (004-09)	<b>List any control devices associated with this emission unit:</b>  NOTE: Fume goes to Alloy Facility's Microsilica Facility and/or Landfill
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Baghouse 6 (0007) to Baghouse Dust Handling (004-09) consisting of 10 Compartments, Total Cloth Area of 129,600 sqft, Continuous type, Reverse Air Cleaning Cycle, Glass Membrane Filter, and a Min Collection Efficiency of 97%**

<b>Manufacturer:</b> Wheelabrator	<b>Model number:</b> High Temperature, Structural	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1973	<b>Installation date:</b> 07/01/1973	<b>Modification date(s):</b> 04/01/1999

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 320,000 CFM @ 360 F

<b>Maximum Hourly Throughput:</b> 320,000 CFM @ 360 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0008 Stack 012

<b>Emission unit ID number:</b> 0008	<b>Emission unit name:</b> Baghouse 7A (0008) to Baghouse Dust Handling (004-09)	<b>List any control devices associated with this emission unit:</b> NOTE: Fume goes to Alloy Facility's Microsilica Facility and/or WVES Landfill	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b> Baghouse 7A (0008) to Baghouse Dust Handling (004-09) consisting of 10 Compartments, Total Cloth Area of 129,600 sqft, Continuous type, Reverse Air Cleaning Cycle, Glass Membrane Filter and a Min Collection Efficiency of 97%			
<b>Manufacturer:</b> Wheelabrator	<b>Model number:</b> High Temperature, Structural	<b>Serial number:</b> NA	
<b>Construction date:</b> 07/01/1970	<b>Installation date:</b> 07/01/1970	<b>Modification date(s):</b> 04/01/2000	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 320,000 CFM @ 360 F			
<b>Maximum Hourly Throughput:</b> 320,000 CFM @ 360 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b> <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

## ATTACHMENT E - Emission Unit Form

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes      No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 003-05 Stacks 015, 029, and Fugitives From Building

<b>Emission unit ID number:</b> 003-05	<b>Emission unit name:</b> Submerged Electric Arc Furnace 9 to Tapping	<b>List any control devices associated with this emission unit:</b> Baghouses 9 (0011) and 12 (0024)
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Submerged Electric Arc Furnace 9 to Tapping**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1971	<b>Installation date:</b> 07/01/1971	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.6 tons/hr

<b>Maximum Hourly Throughput:</b> 2.6 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value



ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-2

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-3

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 003-05 Stacks 015, 029, and Fugitives From Building

<b>Emission unit ID number:</b> 003-05	<b>Emission unit name:</b> Tapping from Furnace 9 to Metal Pouring (003-09), and Slag Handling (005-01)	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Tapping from Furnace 9 to Metal Pouring (003-09), and Slag Handling (005-01)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.6 tons/hr

<b>Maximum Hourly Throughput:</b> 2.6 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 003-09 Fugitives From Building

<b>Emission unit ID number:</b> 003-09	<b>Emission unit name:</b> Metal Pouring (003-09), Tapping, Slag Handling (005-01)	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Metal Pouring (003-09), Tapping, Slag Handling (005-01)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.6 tons/hr

<b>Maximum Hourly Throughput:</b> 2.6 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 005-01 Fugitive and Fugitives From Building

<b>Emission unit ID number:</b> <b>005-01</b>	<b>Emission unit name:</b> <b>Slag Handling (005-01), Metal Pouring (9003-09), Slag Sales</b>	<b>List any control devices associated with this emission unit:</b> Work Practices
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Slag Handling (005-01), Metal Pouring (9003-09), Slag Sales**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.3 tons/hr

<b>Maximum Hourly Throughput:</b> 0.3 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes      No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>ATTACHMENT E - Emission Unit Form</b>			
<i>Emission Unit Description</i> 0011 Stack 015			
<b>Emission unit ID number:</b> <b>0011</b>	<b>Emission unit name:</b> <b>Baghouse 9 (0011) to Baghouse Dust Handling (004-09) Building 70</b>	<b>List any control devices associated with this emission unit:</b> NOTE: Fume goes to WVES Landfill and/or Truck to Fume Sales	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  <b>Baghouse 9 (0011) to Baghouse Dust Handling (004-09) Building 70 consists of 10 Compartmetns, 129,600 sqft in Total Cloth Area, Continuous Type, Shaker Cleaning Cycle, Nomex Bag Filter Type, and Min Collection Efficiency of 97%.</b>			
<b>Manufacturer:</b> Wheelabrator	<b>Model number:</b> High Temperature Structural	<b>Serial number:</b> NA	
<b>Construction date:</b> 07/01/1972	<b>Installation date:</b> 07/01/1972	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 240,000 CFM @ 375 F			
<b>Maximum Hourly Throughput:</b> 240,000 CFM @ 375 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  <div style="height: 100px;"></div>			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
<b>ATTACHMENT E - Emission Unit Form</b>			

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

**List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.**

No source specific applicable equipment requirements

X  Permit Shield

**For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

**Are you in compliance with all applicable requirements for this emission unit?**  X  Yes   No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**

.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 0024 Stack 029

<b>Emission unit ID number:</b> 0024	<b>Emission unit name:</b> Baghouse 12 (0024) to Baghouse Dust Handling (004-09)	<b>List any control devices associated with this emission unit:</b>  NOTE: Fume goes to WVES Landfill and/or Truck to Fume Sales
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Baghouse 12 (0024) to Baghouse Dust Handling (004-09) consists of 8 Compartments, Total Cloth Area of 103,680 sqft, Continuous Type, Shaker Cleaning Cycle, Nomex Bags Filters, and a Min Collection Efficiency of 97%.**

<b>Manufacturer:</b> Wheelabrator	<b>Model number:</b> High Temperature, Structural	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1969	<b>Installation date:</b> 07/01/1969	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 200,000 CFM @ 375 F

<b>Maximum Hourly Throughput:</b> 200,000 CFM @ 375 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired ___ Direct Fired
---	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>ATTACHMENT E - Emission Unit Form</b>			
<b>Emission Unit Description 004-09 Fugitive</b>			
<b>Emission unit ID number:</b> 004-09	<b>Emission unit name:</b> Baghouses 9 (0011) and 12 (0024) Dust Handling to Slurry Truck (0021) and Fume to Sales	<b>List any control devices associated with this emission unit:</b> None	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Baghouses 9 (0011) and 12 (0024) Dust Handling to Slurry Truck (0021) and Fume to Sales			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> 07/01/1972	<b>Installation date:</b> 07/01/1972	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 1.5 tons/hr			
<b>Maximum Hourly Throughput:</b> 1.5 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u>  X  </u> No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>     			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

**List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.**

No source specific applicable equipment requirements

X  Permit Shield

**For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)**

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

**Are you in compliance with all applicable requirements for this emission unit?**  X  Yes   No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

<b>ATTACHMENT E - Emission Unit Form</b>			
<i>Emission Unit Description</i> 0021 Fugitive			
<b>Emission unit ID number:</b> 0021	<b>Emission unit name:</b> Slurry Truck	<b>List any control devices associated with this emission unit:</b> Slurry Truck Misc. Control Device	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Slurry Truck			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> NA			
<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>     			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>ATTACHMENT E - Emission Unit Form</b>			
<b>Emission Unit Description</b> 003-06 Stacks 016, 017, and Fugitives From Building			
<b>Emission unit ID number:</b> 003-06	<b>Emission unit name:</b> Submerged Electric Arc Furnace 14 and Tapping to Air Heat Exchanger(s)	<b>List any control devices associated with this emission unit:</b> Baghouse 14 (0012) and 15 (0013)	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Submerged Electric Arc Furnace 14 and Tapping to Air Heat Exchanger(s)			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> 07/01/1941	<b>Installation date:</b> 07/01/1941	<b>Modification date(s):</b> 11/01/02	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 2.0 tons/hr			
<b>Maximum Hourly Throughput:</b> 2.0 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>   			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value



ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-2

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-3

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 003-06 Stack 016

<b>Emission unit ID number:</b> 003-06	<b>Emission unit name:</b> Furnace 14 and Tapping to air Heat Exchanger to Baghouse 0012 (0024)	<b>List any control devices associated with this emission unit:</b> Baghouse 14 (0012)
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Furnace 14 and Tapping to air Heat Exchanger to Baghouse 0012 (0024)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 003-06 Stack 017

<b>Emission unit ID number:</b> 003-06	<b>Emission unit name:</b> Furnace 14 and Tapping to Air Heat Exchanger to Baghouse 14 (0013)	<b>List any control devices associated with this emission unit:</b> Baghouse 15 (0013)
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Furnace 14 and Tapping to Air Heat Exchanger to Baghouse 14 (0013)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
--	---

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes    \_\_\_ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



<b>ATTACHMENT E - Emission Unit Form</b>			
<b><i>Emission Unit Description</i></b> 003-06 Stacks 016 and/or 017, and Fugitives From Building			
<b>Emission unit ID number:</b> 003-06	<b>Emission unit name:</b> Tapping from Furnace 14 to Metal Pouring (003-09) and Slag Handling (005-01)	<b>List any control devices associated with this emission unit:</b> Work Practice/Building Control	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Tapping from Furnace 14 to Metal Pouring (003-09) and Slag Handling (005-01)			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 2.0 TPY			
<b>Maximum Hourly Throughput:</b> 2.0 TPY	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b><i>Fuel Usage Data (fill out all applicable fields)</i></b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>   			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements.

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 003-09 Fugitives From Building

<b>Emission unit ID number:</b> 003-09	<b>Emission unit name:</b> Metal Pouring (003-09), Tapping, Slag Handling (005-01)	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Metal Pouring (003-09), Tapping, Slag Handling (005-01)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.0 tons/hr

<b>Maximum Hourly Throughput:</b> 2.0 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 005-01 Fugitive and Fugitives From Building

<b>Emission unit ID number:</b> 005-01	<b>Emission unit name:</b> Slag Handling (005-01), Metal Pouring (003-09), Slag Sales	<b>List any control devices associated with this emission unit:</b> Work Practices
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Slag Handling (005-01), Metal Pouring (003-09), Slag Sales

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.2 tons/hr

<b>Maximum Hourly Throughput:</b> 0.2 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 004-09 Fugitive

<b>Emission unit ID number:</b> 004-09	<b>Emission unit name:</b> Baghouse 14 (0012) and/or Baghouse 15 (0013) Dust Handling to silo 14 to Slurry Truck (0021) and Silo 7 to Fume to Sales	<b>List any control devices associated with this emission unit:</b>  None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Baghouse 14 (0012) and/or Baghouse 15 (0013) Dust Handling to silo 14 to Slurry Truck (0021) and Silo 7 to Fume to Sales**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.75 tons/hr

<b>Maximum Hourly Throughput:</b> 0.75 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>ATTACHMENT E - Emission Unit Form</b>			
<i>Emission Unit Description</i> 004-09 S14 Stack 016; Stack 017			
<b>Emission unit ID number:</b> 004-09 S14	<b>Emission unit name:</b> Silo 14 with Densification	<b>List any control devices associated with this emission unit:</b> Baghouse 14 (0012) and 15 (0013)	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Silo 14 with Densification			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> 07/01/1974	<b>Installation date:</b> 07/01/1974	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 9,800 cf			
<b>Maximum Hourly Throughput:</b> 9,800 cf	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>     			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0021 Fugitive

<b>Emission unit ID number:</b> 0021	<b>Emission unit name:</b> Slurry Truck	<b>List any control devices associated with this emission unit:</b> Slurry Truck Misc. Control Device
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Slurry Truck

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value



ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes      No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** Apollo 13 Stack 016; Stack 017

<b>Emission unit ID number:</b> Apollo 13	<b>Emission unit name:</b> Apollo 13 Bagging Unit	<b>List any control devices associated with this emission unit:</b> Baghouse 14 (0012) and 15 (0013)
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Apollo 13 Bagging Unit**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 08/01/2006	<b>Installation date:</b> 08/01/2006	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** Four (4) Tons

<b>Maximum Hourly Throughput:</b> Four (4) Tons	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** Bulk Truck Loading Stack 016; Stack 017

<b>Emission unit ID number:</b> Bulk Truck Loading	<b>Emission unit name:</b> Bulk Truck Loading	<b>List any control devices associated with this emission unit:</b> Baghouse 14 (0012) and 15 (0013)
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Bulk Truck Loading**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 08/01/2006	<b>Installation date:</b> 08/01/2006	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes    \_\_\_ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 003-07 Stacks 016, 017, and Fugitives From Building

<b>Emission unit ID number:</b> 003-07	<b>Emission unit name:</b> Submerged Electric Arc Furnace 15 to Tapping and Air Exchanger(s)	<b>List any control devices associated with this emission unit:</b> Baghouses
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Submerged Electric Arc Furnace 15 to Tapping and Air Exchanger(s)

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1941	<b>Installation date:</b> 07/01/1941	<b>Modification date(s):</b> 07/15/1998

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** Allowable Limits: 18,000 TPY or 2.0 tons/hr

<b>Maximum Hourly Throughput:</b> Allowable Limits: 18,000 TPY or 2.0 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emission.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-2

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-3

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>ATTACHMENT E - Emission Unit Form</b>			
<i>Emission Unit Description</i> 003-06 Stack 016			
<b>Emission unit ID number:</b> 003-06	<b>Emission unit name:</b> Furnace 15 and Tapping to Air Heat Exchanger to Baghouse 14 (0012)	<b>List any control devices associated with this emission unit:</b> Baghouse 14 (0012)	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Furnace 15 and Tapping to Air Heat Exchanger to Baghouse 14 (0012)			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 2.0 tons/hr			
<b>Maximum Hourly Throughput:</b> 2.0 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>  <div style="height: 100px;"></div>			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>ATTACHMENT E - Emission Unit Form</b>			
<i>Emission Unit Description</i> 003-06 Stack 017			
<b>Emission unit ID number:</b> 003-06	<b>Emission unit name:</b> Furnace 15 and Tapping to Air Heat Exchanger to Baghouse 15 (0013)	<b>List any control devices associated with this emission unit:</b> Baghouse 15 (0013)	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Furnace 15 and Tapping to Air Heat Exchanger to Baghouse 15 (0013)			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> NA			
<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>   			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 003-07 Stacks 016 and/or 017, and Fugitives From Building

<b>Emission unit ID number:</b> 003-07	<b>Emission unit name:</b> Tapping Furnace 15, Metal Pouring (003-09), Slag Handling (005-01)	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Tapping Furnace 15, Metal Pouring (003-09), Slag Handling (005-01)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.0 tons/hr

<b>Maximum Hourly Throughput:</b> 2.0 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u>X</u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form		
<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 003-09 Fugitives From Building

<b>Emission unit ID number:</b> 003-09	<b>Emission unit name:</b> Metal Pouring (003-09)), Tapping, Slag Handling (005-01)	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Metal Pouring (003-09)), Tapping, Slag Handling (005-01)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2.0 tons/hr

<b>Maximum Hourly Throughput:</b> 2.0 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 005-01 Fugitive and Fugitives From Building

<b>Emission unit ID number:</b> 005-01	<b>Emission unit name:</b> Slag Handling (005-01), Metal Pouring (003-09), Slag Sales	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Slag Handling (005-01), Metal Pouring (003-09), Slag Sales

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.2 tons/hr

<b>Maximum Hourly Throughput:</b> 0.2 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u> X </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value



<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 004-09 Fugitives

<b>Emission unit ID number:</b> <b>004-09</b>	<b>Emission unit name:</b> <b>Baghouse 14 (0012) and/or Baghouse 15 (0013) Dust Handling to Silo 14 to Slurry Truck (0021) and Silo 7 to Fume Sales</b>	<b>List any control devices associated with this emission unit:</b> None	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  <b>Baghouse 14 (0012) and/or Baghouse 15 (0013) Dust Handling to Silo 14 to Slurry Truck (0021) and Silo 7 to Fume Sales</b>			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 0.75 tons/hr			
<b>Maximum Hourly Throughput:</b> 0.75 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-09 S14 Stack 016; Stack 017

<b>Emission unit ID number:</b> 004-09 S14	<b>Emission unit name:</b> Silo 14 with Densification	<b>List any control devices associated with this emission unit:</b> Baghouse 14 (0012) and 15 (0013)
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
 Silo 14 with Densification

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 07/01/1974	<b>Installation date:</b> 07/01/1974	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 9,800 cf

<b>Maximum Hourly Throughput:</b> 9,800 cf	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0021 Fugitive

<b>Emission unit ID number:</b> 0021	<b>Emission unit name:</b> Slurry Truck	<b>List any control devices associated with this emission unit:</b> Slurry Truck Misc. Control Device
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Slurry Truck

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes    No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** Apollo 13 Stack 016; Stack 017

<b>Emission unit ID number:</b> Apollo 13	<b>Emission unit name:</b> Apollo 13 Bagging Unit	<b>List any control devices associated with this emission unit:</b> Baghouse 14 (0012) and 15 (0013)
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Apollo 13 Bagging Unit

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 08/01/2006	<b>Installation date:</b> 08/01/2006	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** Four (4) Tons

<b>Maximum Hourly Throughput:</b> Four (4) Tons	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** Bulk Truck Loading Stack 016; Stack 017

<b>Emission unit ID number:</b> Bulk Truck Loading	<b>Emission unit name:</b> Bulk Truck Loading	<b>List any control devices associated with this emission unit:</b> Baghouse 14 (0012) and 15 (0013)
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Bulk Truck Loading**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 08/01/2006	<b>Installation date:</b> 08/01/2006	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>ATTACHMENT E - Emission Unit Form</b>			
<b>Emission Unit Description</b> 003-08 Stacks 016, 017, and Fugitives From Building			
<b>Emission unit ID number:</b> 003-08	<b>Emission unit name:</b> Submerged Electric Arc Furnace 16 to Tapping and Air Exchanger(s)	<b>List any control devices associated with this emission unit:</b> Baghouses	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Submerged Electric Arc Furnace 16 to Tapping and Air Exchanger(s)			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> 07/01/1941	<b>Installation date:</b> 07/01/1941	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 0.6 tons/hr			
<b>Maximum Hourly Throughput:</b> 0.6 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>          			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
<b>Emissions Data</b>			

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-2

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-3

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 003-06 Stack 017

<b>Emission unit ID number:</b> 003-06	<b>Emission unit name:</b> Air Heat Exchanger to Baghouse 15 (0013)	<b>List any control devices associated with this emission unit:</b> Baghouse 15 (0013)
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Air Heat Exchanger to Baghouse 15 (0013)

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA
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**Design Capacity** (examples: furnaces - tons/hr, tanks - gallons): NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data** (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u>  X  </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>ATTACHMENT E - Emission Unit Form</b>			
<b><i>Emission Unit Description</i></b> 003-08 Stacks 016 and/or 017, and Fugitives From Building			
<b>Emission unit ID number:</b> <b>003-08</b>	<b>Emission unit name:</b> <b>Tapping Furnace 16, Metal Pouring (003-090), Slag Handling (005-01)</b>	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Controls	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  <b>Tapping Furnace 16, Metal Pouring (003-090), Slag Handling (005-01)</b>			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 0.6 tons/hr			
<b>Maximum Hourly Throughput:</b> 0.6 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b><i>Fuel Usage Data (fill out all applicable fields)</i></b>			
<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>       			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
<b><i>Emissions Data</i></b>			

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 003-09 Fugitives From Building

<b>Emission unit ID number:</b> 003-09	<b>Emission unit name:</b> Metal Pouring (003-09), Tapping, Slag Handling (005-01)	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Metal Pouring (003-09), Tapping, Slag Handling (005-01)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.6 tons/hr

<b>Maximum Hourly Throughput:</b> 0.6 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___ Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 005-01 Fugitives From Building

<b>Emission unit ID number:</b> <b>005-01</b>	<b>Emission unit name:</b> <b>Slag Handling (005-01), Metal Pouring (003-09), Slag Sales</b>	<b>List any control devices associated with this emission unit:</b> Work Practices/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Slag Handling (005-01), Metal Pouring (003-09), Slag Sales**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.6 tons/hr

<b>Maximum Hourly Throughput:</b> 0.6 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**





***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes   No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-09 Fugitive

<b>Emission unit ID number:</b> 004-09	<b>Emission unit name:</b> Baghouse 14 (0012) and/or Baghouse 15 (0013) Dust Handling to Silo 14 to Slurry Truck (0021) and Silo 7 to Fumes to Sales	<b>List any control devices associated with this emission unit:</b>  None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Baghouse 14 (0012) and/or Baghouse 15 (0013) Dust Handling to Silo 14 to Slurry Truck (0021) and Silo 7 to Fumes to Sales**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.75 tons/hr

<b>Maximum Hourly Throughput:</b> 0.75 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___Yes ___X_ No	<b>If yes, is it?</b>  ___ Indirect Fired ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes    \_\_\_ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-09 S14 Fugitive

<b>Emission unit ID number:</b> 004-09 S14	<b>Emission unit name:</b> Silo 14	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Silo 14

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1974	<b>Installation date:</b> 07/01/1974	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 9,800 cf

<b>Maximum Hourly Throughput:</b> 9,800 cf	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

X  Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?  X  Yes    \_\_\_ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0021 Slurry Truck

<b>Emission unit ID number:</b> 0021	<b>Emission unit name:</b> Slurry Truck	<b>List any control devices associated with this emission unit:</b> Slurry Truck Misc. Control Device
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Slurry Truck

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes    \_\_\_ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 0012 Stack 016

<b>Emission unit ID number:</b> 0012	<b>Emission unit name:</b> Heat Exchanger to Baghouse 14 (0012) to Baghouse Dust Handling (004-09)	<b>List any control devices associated with this emission unit:</b>  NOTE: Fume goes to Alloy Facility's Microsilica Facility and/or WVES Landfill
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Heat Exchanger to Baghouse 14 (0012) to Baghouse Dust Handling (004-09) consists of 12 Compartments, Total Cloth Area of 155,520 sqft, Continuous Type, Reverse Air Cleaning Cycle, Glass Membrane Filter, and Min Collection Efficiency of 97%.

<b>Manufacturer:</b> Wheelabrator	<b>Model number:</b> High Temperature, Structural	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1974	<b>Installation date:</b> 07/01/1974	<b>Modification date(s):</b> 07/01/1998

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 451,454 CFM @ 360 F

<b>Maximum Hourly Throughput:</b> 451,454 CFM @ 360 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes      No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description 0013 Stack 017**

<b>Emission unit ID number:</b> 0017	<b>Emission unit name:</b> Heat Exchanger to Baghouse 15 (0013) to Baghouse Dust Handling (004-09)	<b>List any control devices associated with this emission unit:</b>  NOTE: Fume goes to Alloy Facility's Microsilica Facility and/or WVES Landfill
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Heat Exchanger to Baghouse 15 (0013) to Baghouse Dust Handling (004-09) consists of 12 Compartments, Total Cloth Area of 155,520 sqft, Continuous Type, Reverse Air Cleaning Cycle, Glass Membrane Filter, and Min Collection Efficiency of 97%,**

<b>Manufacturer:</b> Wheelabrator	<b>Model number:</b> High Temperature, Structural	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1974	<b>Installation date:</b> 07/01/1974	<b>Modification date(s):</b> 04/01/1998

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 451,454 CFM @ 360 F

<b>Maximum Hourly Throughput:</b> 451,454 CFM @ 360 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 004-09 Fugitive

<b>Emission unit ID number:</b> 004-09	<b>Emission unit name:</b> Baghouse 14 (0012) and/or Baghouse 15 (0013) Dust Handling (004-09) to Silo 14 to Slurry Truck (0021) and Silo 7 to Fume to Sales	<b>List any control devices associated with this emission unit:</b>  None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Baghouse 14 (0012) and/or Baghouse 15 (0013) Dust Handling (004-09) to Silo 14 to Slurry Truck (0021) and Silo 7 to Fume to Sales**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.75 tons/hr

<b>Maximum Hourly Throughput:</b> 0.75 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___Yes ___X_ No	<b>If yes, is it?</b>  ___ Indirect Fired ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0021 Fugitive

<b>Emission unit ID number:</b> 0021	<b>Emission unit name:</b> Slurry Truck	<b>List any control devices associated with this emission unit:</b> Slurry Truck Misc. Control Device
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Slurry Truck

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___ Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 004 Fugitive

<b>Emission unit ID number:</b> 004	<b>Emission unit name:</b> Product Storage to Product Loading (004-08)	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

### **Product Storage to Product Loading (004-08)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*



Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-02 Stack 022 and Fugitives From Building

<b>Emission unit ID number:</b> 004-02	<b>Emission unit name:</b> C7P Impactor (004-02), Bin and Conveyor System, and Baghouse Dust Handling (004-09)	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

C7P Impactor (004-02), Bin and Conveyor System, and Baghouse Dust Handling (004-09) consists of Feed Bin to Vibratory Feeder, Vibratory Feeder to Elevator, Elevator to Screen Box 1, Screen Box 1 to Screen Box 2, Screen Box 2 to Impactor Hammer Mill and Product Storage Piles (004-10), Bin 1 to Conveyor 1, Bin 2 to Conveyor 2, Conveyor 1 and Conveyor 2 to Conveyor 3, and Conveyor 3 to Product Landing (004-08)

<b>Manufacturer:</b> Pennsylvania Impactor	<b>Model number:</b> C-5-35	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1941	<b>Installation date:</b> 07/01/1941	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 1.5 tons/hr

<b>Maximum Hourly Throughput:</b> 1.5 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-10 Fugitives From Building

<b>Emission unit ID number:</b> 004-10	<b>Emission unit name:</b> Product Storage Piles to Product Loading (004-08)	<b>List any control devices associated with this emission unit:</b> Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Product Storage Piles to Product Loading (004-08)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1941	<b>Installation date:</b> 07/01/1941	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-08 Fugitive and Fugitives From Building

<b>Emission unit ID number:</b> 004-08	<b>Emission unit name:</b> Product Loading	<b>List any control devices associated with this emission unit:</b> Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Product Loading**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1941	<b>Installation date:</b> 07/01/1941	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description 0017 Stack 022*

<b>Emission unit ID number:</b> 0017	<b>Emission unit name:</b> C7P Impactor Baghouse (0017) to Baghouse Dust Handling (004-09) Buildings 60 and 61	<b>List any control devices associated with this emission unit:</b>  NOTE: Dust Packaged for Sales and/or WVES Landfill
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**C7P Impactor Baghouse (0017) to Baghouse Dust Handling (004-09) Buildings 60 and 61 consists of 4 Compartments, 2,009 sqft of Total Cloth Area, Continuous Type, Pulse Air Cleaning Cycle, Fabric Filter, Min Collection Efficiency of 99%, and Low Temperature.**

<b>Manufacturer:</b> Fuller	<b>Model number:</b> Plenum Pulse	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1991	<b>Installation date:</b> 07/01/1991	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 12,000 CMF @ 90 F

<b>Maximum Hourly Throughput:</b> 12,000 CMF @ 90 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 004-09 Fugitive

<b>Emission unit ID number:</b> 004-09	<b>Emission unit name:</b> Dust Collector C7P Impactor Dust Handling (004-09) to Slurry Truck (0021) and Dust to Sales	<b>List any control devices associated with this emission unit:</b>  None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Metal Pouring (003-09), Tapping, Slag Handling (005-01)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes ___X___ No	<b>If yes, is it?</b>  ___ Indirect Fired ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0021 Fugitive

<b>Emission unit ID number:</b> 0021	<b>Emission unit name:</b> Slurry Truck	<b>List any control devices associated with this emission unit:</b> Slurry Truck Misc. Control Device
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Slurry Truck

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u>  X  </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-03 Stacks 023 and Fugitives From Building and Stacks 024 and Fugitives From Building

<b>Emission unit ID number:</b> 004-03	<b>Emission unit name:</b> C7P Multi-Stage Crusher and Chute from Pocket Belt to 48" Crusher	<b>List any control devices associated with this emission unit:</b> Baghouse/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
 C7P Multi-Stage Crusher consisting of Feed Hooper to Armored Feeder, Armored Feeder to Belt Conveyor, Belt Conveyor to Jaw Crusher, Jaw Crusher to Vibratory Feeder 1 (HB 30" X 42"), Vibratory Feeder 1 to Pocket Belt and Pocket Belt to Chute.

Chute from Pocket Belt to 48" Crusher consisting of 48" Crusher to 2 X 10 Belt (48" Gyrator), 2X 10 Belt to #1 Bucket Elevator, #1 Bucket Elevator to #1 Screen Box, #1 Screen Box to Floor Skips and to 36" Crusher and to Conveyor, Floor Skips, 36" Crusher to Recycle Belt (Grasphere), Recycle Belt to #3 Bucket Elevator, #3 Bucket Elevator to #2 Screen, #2 Screen to Floor Skips and Car Loading Belt, Floor Skips, Car Loading Belt to Product Loading (004-08) and Product Storage Piles (004-10), Conveyor to Flop Gate, Flop Gate to Floor skips and Car Loading Belt, Floor Skips, Car Loading Belt to Product Loading (004-08) and Product Storage Piles.

<b>Manufacturer:</b> Traylor Telesmith: Baber-Green	<b>Model number:</b> C-5-35	<b>Serial number:</b> NA
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<b>Construction date:</b> 07/01/1936	<b>Installation date:</b> 07/01/1936	<b>Modification date(s):</b> 10/01/2003
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 50 tons/hr

<b>Maximum Hourly Throughput:</b> 50 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-08 Stacks 024, Fugitives, and Fugitives From Building

<b>Emission unit ID number:</b> 004-08	<b>Emission unit name:</b> Product Landing	<b>List any control devices associated with this emission unit:</b> Baghouse/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Product Landing**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.6 tons/hr

<b>Maximum Hourly Throughput:</b> 0.6 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**



Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 004-10 Fugitive and Fugitives From Building

<b>Emission unit ID number:</b> 004-10	<b>Emission unit name:</b> Product Storage Piles to Product Loading (004-08) and C7P Fines Screener	<b>List any control devices associated with this emission unit:</b> Building Control for Inside Product Storage and Loading
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Product Storage Piles to Product Loading (004-08) and C7P Fines Screener**

**NOTE: C7P Fines Screener is a portable conveyor used in C7P beginning in 2002 for product loading into trucks.**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.6 tons/hr

<b>Maximum Hourly Throughput:</b> 0.6 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0015 Stack 023

<b>Emission unit ID number:</b> 0015	<b>Emission unit name:</b> C7P Mainline Baghouse (0015) to Baghouse Dust Handling (004-09)	<b>List any control devices associated with this emission unit:</b>  NOTE: Dust Packaged for Sales and/or WVES Landfill
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**C7P Mainline Baghouse (0015) to Baghouse Dust Handling (004-09) consisting of 14 Compartments, Total Cloth Area of 7,033 sqft, Continuous Type, Pulse Air Cleaning Cycle, Fabric Filter, Min Collection Efficiency of 99%, and Low Temperature.**

<b>Manufacturer:</b> Fuller	<b>Model number:</b> Plenum Pulse	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1968	<b>Installation date:</b> 07/01/1968	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 46,000 CFM @ 90 F

<b>Maximum Hourly Throughput:</b> 46,000 CFM @ 90 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0016 Stack 024

<b>Emission unit ID number:</b> 0016	<b>Emission unit name:</b> C7P Load Hopper Baghouse (0016) to Baghouse Dust Handling (004-09)	<b>List any control devices associated with this emission unit:</b>  NOTE: Dust Packaged for Sales and/or WVES Landfill
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**C7P Load Hopper Baghouse (0016) to Baghouse Dust Handling (004-09) consisting of 6 Compartments, Total Cloth Area of 4,875 sqft, Continuous Type, Pulse Air Cleaning Cycle, Fabric Filter, Min Collection Efficiency of 99%, and Low Temperature.**

<b>Manufacturer:</b> Fuller	<b>Model number:</b> Plenum Pulse	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1994	<b>Installation date:</b> 07/01/1994	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 30,000 CFM @ 90 F

<b>Maximum Hourly Throughput:</b> 30,000 CFM @ 90 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___Yes ___X_ No	<b>If yes, is it?</b>  ___ Indirect Fired ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 004-09 Fugitives

<b>Emission unit ID number:</b> 004-09	<b>Emission unit name:</b> Baghouse C7P Multistage Crusher to Dust Handling to Slurry Truck (0021) and Dust to Sales	<b>List any control devices associated with this emission unit:</b>  None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Baghouse C7P Multistage Crusher to Dust Handling to Slurry Truck (0021) and Dust to Sales**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___Yes ___X___ No	<b>If yes, is it?</b>  ___ Indirect Fired ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ X Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0021 Fugitives

<b>Emission unit ID number:</b> 0021	<b>Emission unit name:</b> Slurry Truck	<b>List any control devices associated with this emission unit:</b> Slurry Truck Misc. Control Device
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Slurry Truck

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u>  X  </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004 Sack 021

<b>Emission unit ID number:</b> 004	<b>Emission unit name:</b> Product Storage to Product Loading	<b>List any control devices associated with this emission unit:</b> Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Product Storage to Product Loading**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u>  X  </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-04 Stacks 008 and Fugitives From Building

<b>Emission unit ID number:</b> 004-04	<b>Emission unit name:</b> C6F Sizing and Cleaning	<b>List any control devices associated with this emission unit:</b> Baghouse/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**C6F Sizing and Cleaning consists of Feed Bin to Conveyor, Conveyor to “A” Table, “A” Table to “C” Table, “B” Table to Product loading (004-08), “C” Table to Table “B”**

<b>Manufacturer:</b> Eliptex and Hewitt-Robins	<b>Model number:</b> 36-188 228 176	<b>Serial number:</b> NA
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<b>Construction date:</b> 07/01/1939	<b>Installation date:</b> 07/01/1939	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 12.5 tons/hr

<b>Maximum Hourly Throughput:</b> 12.5 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-08 Fugitives From Building

<b>Emission unit ID number:</b> 004-08	<b>Emission unit name:</b> Product Loading	<b>List any control devices associated with this emission unit:</b> Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Product Loading**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u>  X  </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**



Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☐ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 0014 Stack 008

<b>Emission unit ID number:</b> 0014	<b>Emission unit name:</b> Baghouse 34 (0014) to Baghouse Dust Handling (004-09)	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Baghouse 34 (0014) to Baghouse Dust Handling (004-09)

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 07/01/1972	<b>Installation date:</b> 07/01/1972	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 99,360 CFM @ 90 F

<b>Maximum Hourly Throughput:</b> 99,360 CFM @ 90 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
<b>Emission Unit Description</b> 004-09 Fugitive			
<b>Emission unit ID number:</b> 004-09	<b>Emission unit name:</b> Baghouse 34 (0014) to Dust Handling to Slurry Truck (0021) and Dust to Sales	<b>List any control devices associated with this emission unit:</b> None	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Baghouse 34 (0014) to Dust Handling to Slurry Truck (0021) and Dust to Sales			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA	
<b>Design Capacity</b> (examples: furnaces - tons/hr, tanks - gallons): NA			
<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data</b> (fill out all applicable fields)			
<b>Does this emission unit combust fuel?</b> ___ Yes ___X___ No		<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 0021 Fugitive

<b>Emission unit ID number:</b> 0021	<b>Emission unit name:</b> Slurry Truck	<b>List any control devices associated with this emission unit:</b> Slurry Truck Misc. Control Device
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Slurry Truck

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes <u>  X  </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004 Fugitive From Building

<b>Emission unit ID number:</b> <b>004</b>	<b>Emission unit name:</b> <b>Product Storage to Dump Hopper with Vibratory Feeder and Fines or Product Loading (004-08)</b>	<b>List any control devices associated with this emission unit:</b> Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Product Storage to Dump Hopper with Vibratory Feeder and Fines or Product Loading (004-08)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-05 Stacks 025, Fugitive and Fugitives From Building

<b>Emission unit ID number:</b> 004-05	<b>Emission unit name:</b> C3P Multistage Crusher	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
 C3P Multistage Crusher consists of Dump Hopper with Vibratory Feeder to Belt Conveyor 1, Belt Conveyor 1 to 36" Jaw Crusher, 36" Jaw Crusher to Belt Conveyor 2, Belt conveyor 2 to Screen Box, Screen Box to 36" Gyro Crusher and Fines 1 Loading Station (004-08), 36" Gyratory Crusher to Belt Conveyor 3 and Conveyor 4, Conveyor 4 to Bin 1 and Bin 2, Bin 1 and Bin 2 to Fines and Product Loading, Belt Conveyor 3 to Belt Conveyor 2 (Recycle).

<b>Manufacturer:</b> Belt Conveyor 2- Birdsboro Belt Conveyor 3 and Conveyor 4- Allis Chambers	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 07/01/1945	<b>Installation date:</b> 07/01/1945	<b>Modification date(s):</b> 2002
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 50 tons/hr, Bins 1 & 2: 100 tons

<b>Maximum Hourly Throughput:</b> 50 tons/hr, Bins 1 & 2: 100 tons	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emission.



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 0018A Stack 025A

<b>Emission unit ID number:</b> 0018A	<b>Emission unit name:</b> C3P Baghouse	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**C3P Baghouse with 99.9% Control Efficiency.**

<b>Manufacturer:</b> Carco-Tech	<b>Model number:</b> 39-15-13-111945-TWH	<b>Serial number:</b> NA
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<b>Construction date:</b> 2008	<b>Installation date:</b> 2008	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 60,000 CFM

<b>Maximum Hourly Throughput:</b> 60,000 CFM	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-08 Fugitive

<b>Emission unit ID number:</b> 004-08	<b>Emission unit name:</b> Fines or Product Loading	<b>List any control devices associated with this emission unit:</b> Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Fines or Product Loading**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u>  X  </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 004 Fugitives From Building

<b>Emission unit ID number:</b> 004	<b>Emission unit name:</b> Product Storage Vibratory Feeder and Product Loading (004-08)	<b>List any control devices associated with this emission unit:</b> Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Product Storage Vibratory Feeder and Product Loading (004-08)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*



Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-06 Stacks 025 and Fugitives From Building

<b>Emission unit ID number:</b> 004-06	<b>Emission unit name:</b> C3P Drum Packing Station	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**C3P Drum Packing Station consists of Dump Hopper with Vibratory Feeder to Chute, and Chute to Product Loading (004-08).**

<b>Manufacturer:</b> Jeffrey	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 07/01/1932	<b>Installation date:</b> 07/01/1932	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 5 tons/hr

<b>Maximum Hourly Throughput:</b> 5 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-08 Fugitives From Building

<b>Emission unit ID number:</b> 004-08	<b>Emission unit name:</b> Product Landing	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Product Landing**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u>  X  </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☐ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 0018A Stack 025A

<b>Emission unit ID number:</b> 0018	<b>Emission unit name:</b> C3P Baghouse	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

C3P Baghouse ( Refer to Emission Unit ID 004-05)

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 2008	<b>Installation date:</b> 2008	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 0.6 tons/hr

<b>Maximum Hourly Throughput:</b> 0.6 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 004 Fugitives From Building

<b>Emission unit ID number:</b> 004	<b>Emission unit name:</b> Product Storage to 4 X 20 Crusher and Product Loading (004-08)	<b>List any control devices associated with this emission unit:</b> Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Crusher and Product Loading (004-08)**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___ Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-07 Stacks 025 and Fugitives From Building

<b>Emission unit ID number:</b> 004-07	<b>Emission unit name:</b> C3P 4 X 20 Crusher	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

C3P 4 X 20 Crusher consists of 4 X 20 Crusher to Screen Box, Screen Box to Product loading (004-08).

<b>Manufacturer:</b> Earle & Bacon	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 07/01/1943	<b>Installation date:</b> 07/01/1943	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 1.5 tons/hr

<b>Maximum Hourly Throughput:</b> 1.5 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-08 Fugitives From Building

<b>Emission unit ID number:</b> 004-08	<b>Emission unit name:</b> Product Loading	<b>List any control devices associated with this emission unit:</b> Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Product Loading**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u>  X  </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 0018A Stack 025A

<b>Emission unit ID number:</b> 0018A	<b>Emission unit name:</b> C3P Baghouse	<b>List any control devices associated with this emission unit:</b> NA
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

C3P Baghouse ( Refer to Emission Unit ID 004-05)

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 2008	<b>Installation date:</b> 2008	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>ATTACHMENT E - Emission Unit Form</b>			
<b><i>Emission Unit Description</i></b> 005-01 Fugitive			
<b>Emission unit ID number:</b>  <b>005-01</b>	<b>Emission unit name:</b> <b>Slag Handling to Slag Sales</b>	<b>List any control devices associated with this emission unit:</b>  None	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  <b>Slag Handling to Slag Sales- Remelts Stockpiles from Furnace Tapping/Casting Processes</b>			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> NA			
<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760	
<b><i>Fuel Usage Data (fill out all applicable fields)</i></b>			
<b>Does this emission unit combust fuel?</b> ___ Yes <u>  X  </u> No		<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>          			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value



<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ X Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 005-02 Fugitive

<b>Emission unit ID number:</b> 005-02	<b>Emission unit name:</b> Plant Roadways	<b>List any control devices associated with this emission unit:</b> Sweeper Trucks
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Plant Roadways

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___ Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 006-01 Fugitives

<b>Emission unit ID number:</b> 006-01	<b>Emission unit name:</b> Furnace 3 Cooling Tower	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Furnace 3 Cooling Tower (Refer to Section 003-01)**

<b>Manufacturer:</b> Ecodyne Corp.	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1973	<b>Installation date:</b> 07/01/1973	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 90 gal/min

<b>Maximum Hourly Throughput:</b> 90 gal/min	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___ Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 006-02 Fugitives From Building

<b>Emission unit ID number:</b> 006-02	<b>Emission unit name:</b> C3F Ladle Lining Pit	<b>List any control devices associated with this emission unit:</b> Canister Dust Collector/Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**C3F Ladle Lining Pit consists of Dust Collector for C3F Ladle Lining, Type: Cyclone, Cleaning: Shaker mechanism into a removable canister**

<b>Manufacturer:</b> Blasterete Corp. (Building 5) Donaldson Toit Built	<b>Model number:</b> 1G020 3EA-24741-00	<b>Serial number:</b> 98287
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<b>Construction date:</b> 03/05/1996	<b>Installation date:</b> 03/05/1996	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 1.5 tons/hr

<b>Maximum Hourly Throughput:</b> 1.5 tons/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 006-03 Fugitives From Building

<b>Emission unit ID number:</b> 006-03	<b>Emission unit name:</b> Ladle Dig-Out	<b>List any control devices associated with this emission unit:</b> Building Control
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Ladle Dig-Out**

<b>Manufacturer:</b> Kent Air Tools	<b>Model number:</b> KHB-5C	<b>Serial number:</b> 316HD
<b>Construction date:</b> 12/31/1992	<b>Installation date:</b> 12/31/1992	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 006-04 Cyclone Stack

<b>Emission unit ID number:</b> 006-04	<b>Emission unit name:</b> Lab. Herzog Sample Prep. (Bldg 5B)	<b>List any control devices associated with this emission unit:</b> Cyclone
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Lab. Herzog Sample Prep. (Bldg 5B)

<b>Manufacturer:</b> Herzog	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1990	<b>Installation date:</b> 07/01/1990	<b>Modification date(s):</b> NA

**Design Capacity** (examples: furnaces - tons/hr, tanks - gallons): NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data** (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 006-05 Fugitives From Building

<b>Emission unit ID number:</b> 006-05	<b>Emission unit name:</b> Sample Prep. Crushing	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Sample Prep. Crushing

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1940	<b>Installation date:</b> 07/01/1940	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u>  X  </u> No	<b>If yes, is it?</b> ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 006-06 Fugitives From Building

<b>Emission unit ID number:</b> 006-06	<b>Emission unit name:</b> Lance Pipes	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Lance Pipes

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> NA	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes <u>  X  </u> No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ X Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 006-07 Fugitives From Building

<b>Emission unit ID number:</b> 006-07	<b>Emission unit name:</b> Furnace 3 Ladle Preheater	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Furnace 3 Ladle Preheater**

<b>Manufacturer:</b> Hotwork	<b>Model number:</b> HV-600-PU 251	<b>Serial number:</b> NA
<b>Construction date:</b> 1970s	<b>Installation date:</b> 1970s	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 4 MM Btu/hr

<b>Maximum Hourly Throughput:</b> 4 MM Btu/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**



Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ X Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* 006-08 Fugitives From Building

<b>Emission unit ID number:</b> 006-08	<b>Emission unit name:</b> Furnace 6 & 7 Ladle Preheater	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Furnace 6 & 7 Ladle Preheater**

<b>Manufacturer:</b> Shelter and Brink	<b>Model number:</b> 94763	<b>Serial number:</b> NA
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<b>Construction date:</b> 1970s	<b>Installation date:</b> 1970s	<b>Modification date(s):</b> Replaced 1995
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 6 MM Btu/hr

<b>Maximum Hourly Throughput:</b> 6 MM Btu/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

### *Emissions Data*

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 006-04 0019 Stack

<b>Emission unit ID number:</b> 006-04	<b>Emission unit name:</b> Lab Herzog Cyclone	<b>List any control devices associated with this emission unit:</b> NA
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Lab Herzog Cyclone with a Tangential Feed Method, a Simple Type and consisting of 1 unit.**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 07/01/1990	<b>Installation date:</b> 07/01/1990	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** NA

<b>Maximum Hourly Throughput:</b> NA	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> ___ Yes    __X__ No	<b>If yes, is it?</b>  ___ Indirect Fired    ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 006-09 Fugitives From Building

<b>Emission unit ID number:</b> 006-09	<b>Emission unit name:</b> Furnaces 14 & 15 Ladle Preheater	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Furnaces 14 & 15 Ladle Preheater**

<b>Manufacturer:</b> Shelter and Brink	<b>Model number:</b> 94763	<b>Serial number:</b> NA
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<b>Construction date:</b> 1970s	<b>Installation date:</b> 1970s	<b>Modification date(s):</b> Replaced 1994
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 6 MM Btu/hr

<b>Maximum Hourly Throughput:</b> 6 MM Btu/hr	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 006Fugitives From Building

<b>Emission unit ID number:</b> 006	<b>Emission unit name:</b> Carbon Paste Pan Mill	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Carbon Paste Pan Mill**

<b>Manufacturer:</b> Stevens Pan Mill	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 1950	<b>Installation date:</b> 1950	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 240 TPY

<b>Maximum Hourly Throughput:</b> 240 TPY	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

No source specific applicable equipment requirements

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

There is no specific monitoring/testing/recordkeeping/reporting for this equipment.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-09 S7 Fugitive

<b>Emission unit ID number:</b> 004-09 S7	<b>Emission unit name:</b> Silo Number 7	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Silo Number 7

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1974	<b>Installation date:</b> 07/01/1974	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 8,000 cf

<b>Maximum Hourly Throughput:</b> 8,000 cf	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b> <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

<b>Are you in compliance with all applicable requirements for this emission unit?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, complete the <b>Schedule of Compliance Form</b> as ATTACHMENT F.			
<b>ATTACHMENT E - Emission Unit Form</b>			
<b>Emission Unit Description</b> MS-1 MS-1C			
<b>Emission unit ID number:</b> MS-1	<b>Emission unit name:</b> Wet Slurry Mixing Facility	<b>List any control devices associated with this emission unit:</b> Baghouse and Water Spray	
<b>Provide a description of the emission unit (type, method of operation, design parameters, etc.):</b>  Wet Slurry Mixing Facility is in a Building that is Adjacent to Silo No. 7 and Design Water Flow is 482 gallons per hour			
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA	
<b>Construction date:</b> 10/01/1983	<b>Installation date:</b> 10/01/1983	<b>Modification date(s):</b> NA	
<b>Design Capacity (examples: furnaces - tons/hr, tanks - gallons):</b> 10,000 TPY			
<b>Maximum Hourly Throughput:</b> 10,000 TPY	<b>Maximum Annual Throughput:</b> 10,000 TPY	<b>Maximum Operating Schedule:</b> 8,760	
<b>Fuel Usage Data (fill out all applicable fields)</b>			
<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired	
<b>Maximum design heat input and/or maximum horsepower rating:</b>		<b>Type and Btu/hr rating of burners:</b>	
<b>List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.</b>          			
<b>Describe each fuel expected to be used during the term of the permit.</b>			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* MS-1C MS-1E

<b>Emission unit ID number:</b> MS-1C	<b>Emission unit name:</b> Backup Baghouse Dust Control Device	<b>List any control devices associated with this emission unit:</b> NA
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Backup Baghouse Dust Control Device consisting of Dust Ducted to Silo 7, 1 Compartment, Total Cloth Area of 215 sqft, Continuous Automatic Type, Compresses Air Pulse Jets Cleaning Cycle, Felt Fabric Pad Supported on a Rigid Mesh Frame or Insert that is Weather Proof and Insertable Filter Type, Air to Cloth Ratio of 9.3 to 1 ft/min, and Min Collection Efficiency of 99%.**

<b>Manufacturer:</b> DCE Vokes	<b>Model number:</b> DLM V20/10 F5	<b>Serial number:</b> NA
<b>Construction date:</b> 10/01/1983	<b>Installation date:</b> 10/01/1983	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 2,000 CFM @ 300 F

<b>Maximum Hourly Throughput:</b> 2,000 CFM @ 300 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___Yes ___X___ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** MS2 None

<b>Emission unit ID number:</b> MS2	<b>Emission unit name:</b> Microsilica Slurry Storage Tank Pumps	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Microsilica Slurry Storage Tank Pumps to Truck Tankers and Rail Cars at Loading Stations Adjacent to MS3 and to Barges on Kanawha River consisting of Aboveground- Vertical TankType, Closed Roof Type, and stores Microsilica Slurry.

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 10/01/1983	<b>Installation date:</b> 10/01/1983	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 360,000 gal

<b>Maximum Hourly Throughput:</b> 360,000 gal	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b> <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

**Emissions Data**



Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** MS3 None

<b>Emission unit ID number:</b> MS3	<b>Emission unit name:</b> Microsilica Slurry Loading Building	<b>List any control devices associated with this emission unit:</b> None
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Microsilica Slurry Loading Building

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 08/15/1985	<b>Installation date:</b> 08/15/1985	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 10,000 TPY

<b>Maximum Hourly Throughput:</b> 10,000 TPY	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b> <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO <sub>x</sub> )			
Lead (Pb)			
Particulate Matter (PM <sub>2.5</sub> )			
Particulate Matter (PM <sub>10</sub> )			
Total Particulate Matter (TSP)			
Sulfur Dioxide (SO <sub>2</sub> )			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>			

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** 004-09 (S7) Fugitive

<b>Emission unit ID number:</b> 004-09 (S7)	<b>Emission unit name:</b> Silo Number 7	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Silo Number 7

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 07/01/1974	<b>Installation date:</b> 07/01/1974	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 8,000 cf

<b>Maximum Hourly Throughput:</b> 8,000 cf	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b> <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* DM-1 DM-1C and Fugitive

<b>Emission unit ID number:</b> DM-1	<b>Emission unit name:</b> Dry Microsilica Rotary Classifier	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Dry Microsilica Rotary Classifier**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 09/12/1989	<b>Installation date:</b> 09/12/1989	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 30,000 TPY

<b>Maximum Hourly Throughput:</b> 30,000 TPY	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b> <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO <sub>x</sub> )			
Lead (Pb)			
Particulate Matter (PM <sub>2.5</sub> )			
Particulate Matter (PM <sub>10</sub> )			
Total Particulate Matter (TSP)			
Sulfur Dioxide (SO <sub>2</sub> )			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>			

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* DM-1C DM-1E and Fugitive

<b>Emission unit ID number:</b> DM-1C	<b>Emission unit name:</b> Dry Microsilica Rotary Classifier- Baghouse	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Dry Microsilica Rotary Classifier- Baghouse consisting of 1 Compartment, Total Cloth Area of 1,956 sqft, Continuous Automatic Type, Compressed Air Pulse Jets Cleaning Cycle, 16 oz Polyester Singed Felt Caged Filter, Air to Cloth Ratio of 3.06 ft/min and a Min Collection Efficiency of 99%.**

<b>Manufacturer:</b> Research Conttrell Flex Kleen	<b>Model number:</b> 100-CTWC- 154 (IIIG)	<b>Serial number:</b> NA
<b>Construction date:</b> 09/12/1989	<b>Installation date:</b> 09/12/1989	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 7,500 CFM @ 70 F

<b>Maximum Hourly Throughput:</b> 7,500 CFM @ 70 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> ___Yes ___X_ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO <sub>x</sub> )			
Lead (Pb)			
Particulate Matter (PM <sub>2.5</sub> )			
Particulate Matter (PM <sub>10</sub> )			
Total Particulate Matter (TSP)			
Sulfur Dioxide (SO <sub>2</sub> )			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>			

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* DM-2 DM-2C and Fugitive

<b>Emission unit ID number:</b> DM-2	<b>Emission unit name:</b> Dry Microsilica Building Central	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Dry Microsilica Building Central**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 09/12/1989	<b>Installation date:</b> 09/12/1989	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 30,000 TPY

<b>Maximum Hourly Throughput:</b> 30,000 TPY	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data* (fill out all applicable fields)

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b> <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO <sub>x</sub> )			
Lead (Pb)			
Particulate Matter (PM <sub>2.5</sub> )			
Particulate Matter (PM <sub>10</sub> )			
Total Particulate Matter (TSP)			
Sulfur Dioxide (SO <sub>2</sub> )			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>			



***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description* DM-2C DM-2E

<b>Emission unit ID number:</b> DM-2C	<b>Emission unit name:</b> Dry Microsilica Building Central Baghouse Filter for Bagging Operation and Control of Dust within Building an for Bulk Loading Operations	<b>List any control devices associated with this emission unit:</b>  Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**  
**Dry Microsilica Building Central Baghouse Filter for Bagging Operation and Control of Dust within Building an for Bulk Loading Operations consisting of 1 Compartment, Total Cloth Area of 1,537 sqft, Continuous Automatic Type, Compressed Air Pulse Jets Cleaning Cycle, 16 oz Polyester Singed Felt Caged Filters, Air to Cloth Ratio of 2.76 ft/min, a Min Collection Efficiency of 99%, and Pneumatic Conveyor to Air Densification Silo.**

<b>Manufacturer:</b> Research Conttrell Flex Kleen	<b>Model number:</b> 100-WSWC-121-IIIG	<b>Serial number:</b> NA
<b>Construction date:</b> 09/12/1989	<b>Installation date:</b> 09/12/1989	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 4,200 CFM @ 70 F

<b>Maximum Hourly Throughput:</b> 4,200 CFM @ 70 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___Yes ___X_ No	<b>If yes, is it?</b>  ___ Indirect Fired ___ Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description DS-1 DS-1C*

<b>Emission unit ID number:</b> DS-1	<b>Emission unit name:</b> Air Densification Silo Number 1	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Air Densification Silo Number 1**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 09/12/1989	<b>Installation date:</b> 09/12/1989	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 15,000 TPY

<b>Maximum Hourly Throughput:</b> 15,000 TPY	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>See Attachment I for emission values and the method of estimating emissions.</p>		

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description DS-1C DS-1E*

<b>Emission unit ID number:</b> DS-1C	<b>Emission unit name:</b> Air Densification Silo Number 1 Vent (Baghouse)	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Air Densification Silo Number 1 Vent (Baghouse)- Microsilica is Densified by Air Turbulence consisting of 1 Compartment, Total Cloth Area of 318 sqft, Continuous Automatic Type, Compressed Air Pulse Jets, 16 oz Polyester Singed Felt Caged Filters, Air to Cloth Ratio of 2.98 ft/min and Min Collection Efficiency of 99%.**

<b>Manufacturer:</b> Research Conttrell Flex Kleen	<b>Model number:</b> 100-BVTC-25 (IIG)	<b>Serial number:</b> NA
<b>Construction date:</b> 09/12/1989	<b>Installation date:</b> 09/12/1989	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 950 CFM @ 70 F

<b>Maximum Hourly Throughput:</b> 950 CFM @ 70 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> ___Yes ___X_ No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value



<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

### *Emission Unit Description DS-2 DS-2C*

<b>Emission unit ID number:</b> DS-2	<b>Emission unit name:</b> Air Densification Silo Number 2	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Air Densification Silo Number 2**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
<b>Construction date:</b> 09/15/1993	<b>Installation date:</b> NA	<b>Modification date(s):</b> NA

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 15,000 TPY

<b>Maximum Hourly Throughput:</b> 15,000 TPY	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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### *Fuel Usage Data (fill out all applicable fields)*

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** DS-2C DS-2E

<b>Emission unit ID number:</b> DS-2C	<b>Emission unit name:</b> Air Densification Silo Number 2 Vent (Baghouse)	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Air Densification Silo Number 2 Vent (Baghouse)- Microsilica is Densified by Air Turbulence consisting of 1 Compartment, Total Cloth Area of 318 sqft, Continuous Automatic Type, Compressed Air Pulse Jets Cleaning Cycle, 16 oz Polyester Singed Felt Caged Filters, Air to Cloth Ratio of 3.14 ft/min, and Min Collection Efficiency of 99%.**

<b>Manufacturer:</b> Research Conttrell Flex Kleen	<b>Model number:</b> 100-BVTS-25 (IIG)	<b>Serial number:</b> NA
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<b>Construction date:</b> 09/15/1993	<b>Installation date:</b> 09/15/1993	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 950 CFM @ 70 F

<b>Maximum Hourly Throughput:</b> 950 CFM @ 70 F	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.



## ATTACHMENT E - Emission Unit Form

**Emission Unit Description** DM-2C DM-2E and Fugitives From Building

<b>Emission unit ID number:</b> DM-2C	<b>Emission unit name:</b> Air Densification Silos	<b>List any control devices associated with this emission unit:</b> Baghouse
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

**Air Densification Silos to Paper Bagging Operation or Super-Sack Station via Pneumatic Conveyor or Bulk Loading to Railcars or Trucks**

<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Serial number:</b> NA
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<b>Construction date:</b> 09/12/1989	<b>Installation date:</b> 09/12/1989	<b>Modification date(s):</b> NA
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**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):** 30,000 TPY

<b>Maximum Hourly Throughput:</b> 30,000 TPY	<b>Maximum Annual Throughput:</b> NA	<b>Maximum Operating Schedule:</b> 8,760
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

<b>Emissions Data</b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO <sub>x</sub> )		
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )		
Particulate Matter (PM <sub>10</sub> )		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

**List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).**

See Attachment I for emission values and the method of estimating emissions.

***Applicable Requirements***

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

See Attachment E-4

  X   Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

See Attachment E-5

Are you in compliance with all applicable requirements for this emission unit?   X   Yes         No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## **Attachment E-2**

### **Applicable Requirements for Electric Arc Furnaces**

***List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.***

The following regulatory requirements are set forth in R14-0017, with the applicable permit condition and regulatory requirement listed:

#### **5.1 Limitations and Standards**

- 5.1.1. Particulate emissions from electric submerged arc Furnace 15 (ID 003-07) shall be controlled by venting gases from the furnace and controlled furnace tapping operations through baghouse 0012 or 0013 (emission point IDs. 016 or 017).  
**[45CSR14, R14-0017, A.1, Furnace 15]**
- 5.1.2. The mass of particulate matter entering Baghouse number 0012 and/or baghouse number 0013 operated in conjunction with furnace number 15 shall be reduced by at least 99% before discharge to the atmosphere.  
**[45CSR14, R14-0017, A.2, Furnace 15]**
- 5.1.3. Visible emissions from all operations directly associated with furnace number 15 (including furnace charging, refining, tapping, and ladle additions,) shall not equal or exceed 20% opacity [Section 5.1.18.a] (45CSR§7-4.7.a). In accordance with 45CSR7 and 45CSR7A, opacity observations at the baghouse discharge points, the roof monitor above furnace number 15, and from all external ductwork handling gases from furnace number 15 shall not be as dark as or darker in shade than 20% opacity. Opacity observations shall not be averaged in determining compliance with this visible emission limitation. This visible emission standard shall not be applicable during blowing taphole events, poling, ~~and~~ oxygen lancing, and burning down prior to electrode change. Poling emissions shall not exceed five (5) minutes in duration during any poling operation.  
**[45CSR14, R14-0017, A.3, Furnace 15]**
- 5.1.4. Visible emissions from casting and associated operations following removal of the ladle (s) from the tapping station (including ladle switching, slag handling and reladling) shall not exceed the 20% opacity except that visible emissions from such operations shall not equal or exceed 40% opacity for an aggregate 5 minutes in any 60 minute period.  
**[45CSR14, R14-0017, A.4, Furnace 15]**
- 5.1.5. The company shall adhere to the following standard operating practices with respect to casting operations associated with Furnace number 15:

***For molten slag handling operations:***

1. After the pouring has been completed, the ladle is brought to a full upright position and moved to the rakeout station.
2. The bottom blowing system remains on low-flow mode through the entire rakeout and repositioning process.
3. The ladle is lowered as close to the bottom of the pit as possible and slowly turned completely over to dump any loose slag.
4. The ladle then is raised parallel to the ground and the harder-to-remove slag is “raked” out by the operator using a rakeout machine.
5. The ladle is once again lowered close to the ground and turned completely over to dump any slag remaining in the ladle.
6. The ladle is righted and moved back into the pit.

***For casting operations:***

1. Removal of non-process material in chills prior to pouring to chills.
2. Keep ladle lip close to chills during pouring to chills.
3. Reduce refining gas flow during pouring to chills.
4. Reduce molten metal temperature prior to pouring to chills.

**[45CSR14, R14-0017, A.5, Furnace 15]**

- 5.1.6. Testing to determine compliance with Sections 5.1.3 and 5.1.4 shall be conducted in accordance with 45CSR7A or an alternative method approved by the Director.

**[45CSR14, R14-0017, A.6, Furnace 15]**

- 5.1.7. Emissions from electric submerged arc Furnace 15 vented through emission point (Stack 016 or 017) shall not exceed the following types and amounts of pollutants:

POLLUTANT	LB/HR	TONS/YR
Lead	0.01	0.03
Particulate Matter (PM)	26.57	111.6
Particulate Matter < 10 microns (PM <sub>10</sub> )	22.71	95.38
Volatile Organic Compounds (VOC)	4.15	17.44
Oxides of Nitrogen (NO <sub>x</sub> )	110.0	462.0
Sulfur Dioxide (SO <sub>2</sub> )	175.61	737.56
Carbon Monoxide (CO)	57.88	243.11

**[45CSR14, R14-0017, A.7, Furnace 15]**

- 5.1.8. Electric submerged arc Furnace 15 shall not produce ferroalloys in excess of 18,000 tons per calendar year. Provided that in no event shall the emission limits set forth in Section 5.1.7 be exceeded. Additionally:

1. The permittee shall not combust a coal and charcoal mixture in EAF 15 with a sulfur

content of greater than 2.15%.

2. EAF 15 shall not operate more than 8,400 hours per year.

**[45CSR14, R14-0017, A.8, Furnace 15]**

5.1.9. The Director has approved the particulate emission limitations for furnace number 15 in Sections 5.1.2, 5.1.3, and 5.1.7 based upon the presumption that number 15 furnace and all other components of the duplicate source operation including all operating electric submerged arc furnaces comply with the provisions of Section 5.1.18.a [45CSR§7-4.7.a]. Upon any finding by the Director that any part of this duplicate source operation fails to comply with the provisions of 45CSR7, Section 4.7.a, furnace number 15 shall be subject to a particulate mass emission limitation determined in accordance with 45CSR§§7- 4.1 (Section 3.1.13), 4.4 (Section 5.1.16), 4.7 (Section 5.1.18), and 4.8 (Section 5.1.19), and including 45CSR§7-4.5 (Section 5.1.17) if also applicable.

**[45CSR14, R14-0017, A.9]**

5.1.10. Visible emissions from the material handling and/or preparation activities identified as process area ID 026 (Stack 026) in Permit Application R13-2091 shall be minimized through the use of a slurry truck (unless the baghouse dust is being sold as a product in which case it may be loaded out either dry or wet) to collect baghouse dust and operation of a suction pipe surrounding the dust discharge pipe into the truck to collect fugitive dust. Particulate emissions of slag loading to barges shall be minimized through the use of wet suppression.

**[45CSR14, R14-0017, A.10]**

5.1.11. Volumetric gas flow as shown by the volumetric gas flow rate through tapping and poling hoods and gates associated with Furnaces 3, 6, 7, 14, and 15 OR fan motor power consumption of each motor of each fan serving to move gases through each of the tapping control system hoods on Furnaces 3, 6, 7, 14, and 15 shall be maintained at or above the levels established during the most recent compliance tests which demonstrated compliance with 45CSR7, and these systems shall be designed, maintained, and operated so as to conform to the capture efficiency and mass emission rates set forth in permit application number R13- 2091 and R14-17, at all times that Furnaces 3, 6, 7, 14, or 15 are in operation. The tapping and poling hoods and gates shall be positioned and all tapping operations fans and hoods will be operated to assure maximum feasible capture of emissions during all tapping operations including during ladle additions, blowing tapholes, poling, oxygen lancing operations, plugging, burning, and switching ladles.

**[45CSR14, R14-0017, A.11]**

5.1.12. The physical configuration of all particulate capture equipment associated with Furnace 15, including hoods and ductwork and the method of operation of such equipment, including moveable hoods and gates, shall be maintained in accordance with permit application number R13-2091 and R14-17 and the most recent performance test demonstrating compliance, unless the permittee receives approval from the Director for an alternative or equivalent design or modified operation. This requirement is also applicable to Furnaces 3, 6, 7, and 14 with respect to particulate matter capture systems for tapping and associated operations.

**[45CSR14, R14-0017, A.12]**

5.1.13. At all times that electric submerged arc Furnace 15 is operated, the permittee shall maintain total volumetric gas flow to the baghouse(s), as shown by the volumetric gas flow rate to Baghouses 14 (0012) and 15 (0013) when servicing Furnace 15 or fan motor power consumption of each motor of each fan serving to move gases to Baghouses 14 (0012) and 15 (0013) when servicing Furnace 15, at or above the levels established during the most recent compliance tests which demonstrated compliance with 45CSR7 and this permit.

**[45CSR14, R14-0017, A.13, Furnace 15]**

5.1.14. The Director may require the permittee to verify any fan performance curve by monitoring necessary fan- operating parameters and determining the gas volume moved using methods 1 and 2 of 40 C.F.R. 60, Appendix A.

**[45CSR14, R14-0017, A.14]**

5.1.15. At all times that electric submerged arc Furnace 15 is operated, the permittee shall maintain the pressure drop across each separate compartment of Baghouses 14 (0012) and 15 (0013) when servicing Furnace 15 within the levels established during the most recent compliance test which demonstrated compliance with 45CSR7 and this permit. The average pressure drop for Baghouses 14 and 15 is between 7" and 13" water gauge.

**[45CSR14, R14-0017, A.15, Furnace 15]**

5.1.16. If a duplicate source operation that meets the requirements of 45CSR7 is expanded or if a source operation that meets the requirements of 45CSR7 is expanded to form a duplicate source operation, the total allowable emission rate for the expanded portion shall be determined by the following formula:

$$R_e = (W_e / W_{et}) R_{et}$$

Where:

$R_e$  is the total allowable emission rate in pounds per hour for the new expanded portion of the duplicate source operation;

$W_{et}$  is the total operating process weight rate in pounds per hour of the source operation or duplicate source operation prior to expansion plus the operating process weight rate of the new expanded portion;

$R_{et}$  is allowable emission rate in pounds per hour found in Section 3.1.13 [45CSR§7-4.1] opposite the process weight rate,  $W_{et}$ ; and

$W_e$  is the operating process weight rate in pounds per hour for the new expanded portion.

**[45CSR§7-4.4]**

5.1.17. Separate stack emission rates for the new expanded portions of concern in Section 5.1.16 [45CSR§7-4.4] shall be calculated as per Section 5.1.19 [45CSR§7-4.8]. The applicable stack emission rate(s) so calculated shall be additive with the existing emission rate for any stack used to vent both an existing source operation or duplicate source operation(s) and addition(s) or portion(s) thereof.

**[45CSR§7-4.5]**

5.1.18. Except as noted in Section 5.1.18.a [45CSR§7- 4.7.a], the increase of the operating process weight rate of any manufacturing process source operation or duplicate

source operation by the operation of new, replacement, reactivated and/or altered source operation(s) shall be considered as an expansion and the allowable emission rates from the source operation(s) which resulted in the increase shall be determined as per Section 5.1.16 [45CSR§7-4.4].

- a. Type 'b' duplicate source operations whose air pollution control equipment efficiency is a minimum of ninety-nine percent (99%) by weight and whose total process weight rate is less than two hundred fifty thousand (250,000) pounds per hour shall be exempted from the requirements of Section 3.1.13 [45CSR§7-4.1] provided that smoke emitted into the open air from any such duplicate source operation is less than twenty percent (20%) opacity. If a duplicate source operation is expanded by the addition of a new source operation(s) and the total operating process weight rate is then greater than two hundred fifty thousand (250,000) pounds per hour, the allowable emission rates from the source operation which resulted in the increase above two hundred fifty thousand (250,000) pounds per hour shall be determined as per Section 5.1.16 [45CSR§7-4.4].

**[45CSR§§7-4.7 and 4.7.a, Furnaces 3, 6, 7, 9, 14, 15 and 16]**

- 5.1.19. Where more than one source operation or combinations thereof, which are part of a duplicate source operation, are vented through separate stacks, the allowable stack emission rates for the separate stacks shall be determined by the following formula:

$$R_s = R_t (W_s / W_t)$$

Where:

$R_s$  is the allowable stack emission rate for the separate stack venting the source operation(s) in question;

$R_t$  is the total allowable emission rate for the duplicate source operation;

$W_s$  is the operating process weight rate for the source operation(s) vented through the separate stack; and

$W_t$  is the total operating process weight rate for the duplicate source operation

**[45CSR§7-4.8, Furnaces 3, 6, 7, 9, 14, 15 and 16]**

- 5.1.20. Even after the expiration of consent order CO-R14-E-2002-2003 Alloy Facility shall continue to follow all requirements and work practices as outlined in section V.9 of said consent order.

- a. Revised casting process to reduce the gas flow level used for refining, to lower generation of fugitive particular matter emissions while using the floating slag refining technique for casting process and to reduce fugitive particulate matter for casting stations and ladle rake out stations for Furnaces 3, 6, 7, 9, 14, and 15.
- b. Reduced the gas flow level during the ladle rake out process, to lower the generation of fugitive particulate matter emissions during the ladle rake operation.
- c. Operate improved plugging technology on Furnaces Nos. 6, 7, 14, and 15, which will allow the taphole to be plugged during periods of blowing taps.



- d. Operate converted electrode system on Furnace 14 (installed 2003) to reduce the quantity of fugitive particulate matter.

**[45CSR14, R14-0017, A.22 and Consent Order CO-R14-E-2002-03, V.9]**

- 5.1.21. The permitted facility shall be constructed and operated in accordance with information filed in Permit Application R13-2091, R14-17, R14-0017A, R14-0017B and R14-0017C, and any amendments thereto. The Director may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.

**[45CSR14, R14-0017, C.3]**

- 5.1.22. Mineral acids shall not be released from any type source operation or duplicate source operation or from any air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity given in Table 45-7B of 45CSR7. Following table lists the equipment with their allowable stack emission rates for hydrogen chloride (HCl) and Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>).

<b>Electric Submerged Arc Furnace Number</b>	<b>Pollutant</b>	<b>Allowable Stack Emission Rate Milligrams Per Dry Cubic Meter</b>
3	HCl Mist and/or Vapor	210
	Sulfuric Acid Mist	35
6	HCl Mist and/or Vapor	420
	Sulfuric Acid Mist	70
7	HCl Mist and/or Vapor	420
	Sulfuric Acid Mist	70
9	HCl Mist and/or Vapor	420
	Sulfuric Acid Mist	70
14	HCl Mist and/or Vapor	420
	Sulfuric Acid Mist	70
15	HCl Mist and/or Vapor	420
	Sulfuric Acid Mist	70
16	HCl Mist and/or Vapor	420
	Sulfuric Acid Mist	70

**[45CSR§7-4.2]**

- 5.1.23. The pertinent sections of 45CSR10 applicable to this facility include, but are not limited to, the following: No person shall cause, suffer, allow, or permit the emission into open air from any source operation an in- stack sulfur dioxide concentration exceeding 2000 ppmv by volume from existing source operations, except as provided in 45CSR§10-4.1.

**[45CSR§10-4.1 and 45CSR14, R14-0017, B.3]**

## **Attachment E-3**

### **Monitoring/Testing/Recordkeeping/Reporting Requirements for Electric Arc Furnaces**

***For all applicable requirements listed above, provide monitoring/testing/record-keeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)***

The following regulatory requirements are set forth in R14-0017, with the applicable permit condition and regulatory requirement listed:

#### **5.2. Monitoring Requirements**

5.2.1. The permittee shall adhere to the following standard operating procedures for Baghouses 14 (0012) and 15 (0013):

1. Daily inspection of baghouse visible emissions when servicing Furnace 15.
2. Weekly confirmation that dust is being removed from the hoppers when servicing Furnace 15.
3. Monthly checks of bag cleaning mechanisms for proper functioning when servicing Furnace 15.
4. Quarterly confirmation of the physical integrity of the baghouse when servicing Furnace 15.
5. Semiannual inspection of the fans when servicing Furnace 15.

**[45CSR14, R14-0017, A.16]**

5.2.2. All required monitoring devices shall be checked for calibration annually in accordance with the procedures under 40 CFR 60.13(b).

**[45CSR14, R14-0017, A.21]**

5.2.3. The permittee shall conduct monitoring/Record Keeping/reporting for electric arc furnaces (3, 6, 7, 9, 14, 15, and 16) including tapping and pouring.

- a. Initially, the Method 22 test shall be performed once every four (4) months for two years for each operating furnace for one complete tap cycle, regardless if a poling, blowing taphole or oxygen lance operation is captured, for fugitive particulate emission. In conducting the opacity observations of the shop building, the observer must limit his or her field of view to the area of the shop building roof monitor that corresponds to the placement of the affected submerged arc furnaces. If there are no visible emissions detected, then Alloy Facility may perform semi-annual visible emission readings for each operating

furnace for one complete tap, regardless if a poling, blowing taphole or oxygen lance operation is captured. The tap and pouring cycle shall be defined as from the initiation of the tap until the ladle is returned to the pit and the tapping hood is closed, after the completion of the pouring. If any of the subject emission points have visible emissions equal to or exceeding twenty percent (20%) opacity, then a 45CSR7A evaluation shall be conducted immediately after the violation of the regulatory limit unless the permittee can demonstrate a valid reason that the time frame should be extended. A 45CSR7A evaluation shall not be required if the condition resulting in the excess visible emissions is corrected within 24 hours and the units are operated at normal operating conditions. If visible emissions are detected during the semi-annual frequency, the permittee shall revert back to performing the visible emission readings every four (4) months for two years. If no visible emissions are detected during this period, then the permittee may proceed with semi-annual visible emissions.

- b. A record of each visible emissions observation shall be maintained, including any data required by 40 C.F.R. 60 Appendix A, Method 22 or Method 9, whichever is appropriate. The record shall include, at a minimum, the date, time, name of the emission unit, the applicable visible emissions requirement, the results of the observation, and the name of the observer. Records shall be maintained on site for a period of no less than five (5) years stating any maintenance or corrective actions taken as a result of the weekly inspections, and the times the fugitive dust control system(s) are inoperable and any corrective actions taken.

**[45CSR§30-5.1.c]**

5.2.4. The permittee shall install, calibrate, maintain, and operate the following:

- a. A device(s) capable of continuously measuring, and recording at least once per shift, the volumetric gas flowrate or fan motor power consumption across each fan serving to move gases through the tapping hoods and associated ductwork of Furnaces 3, 6, 7, 14, 15, and 16. Each gas flow measurement device shall have an accuracy of  $\pm 10$  percent over its operating range, and each fan power consumption measurement device shall have an accuracy of  $\pm 5$  percent over its operating range. If the option of volumetric gas flowrate is chosen, the device(s) shall be installed within 180 days of start-up of Furnace 15. If the option of fan motor power consumption is chosen, the device(s) shall be installed within 60 days of start-up of Furnace 15.
- b. A device(s) capable of continuously measuring, and recording at least once per shift, volumetric gas flow rate or fan motor power consumption across each fan serving to move all gases from Furnace 15 to the baghouse(s) serving Furnace 15. Each gas flow measurement device shall have an accuracy of  $\pm 10$  percent over its operating range, and each fan power consumption measurement device shall have an accuracy of  $\pm 5$  percent over its operating range.
- c. A device(s) capable of continuously measuring and recording pressure drop across each separate compartment of Baghouses 14 (0012) and 15 (0013) when servicing Furnace 15. Each such device shall have an accuracy of  $\pm 5$  percent over its operating range.

**[45CSR§30-5.1.c]**

**5.2.5. CAM monitoring requirement.**

- a. The volumetric gas flowrate or fan motor power consumption across each fan serving to move gases through the tapping hoods and associated ductwork of Furnace 15 shall be monitored continuously. Records shall be kept on site with entries including date and time of each reading, and readings results. If there were more than one reading taken during one day, the readings should be averaged on a daily basis to get a daily average (one for each 24-hr period). If there was just one reading taken during one day, this reading should be considered “a daily average”. A daily average fan motor power consumption rate below 65 amps is considered an excursion.
- b. The volumetric gas flowrate or fan motor power consumption across each fan serving to move gases from Furnace 15 to the baghouse(s) serving Furnace 15 shall be monitored continuously. Records shall be kept on site with entries including date and time of each reading, and readings results. If there were more than one reading taken during one day, the readings should be averaged on a daily basis to get a daily average (one for each 24-hr period). If there was just one reading taken during one day, this reading should be considered “a daily average”. A daily average fan motor power consumption rate below 450 amps during full load (22.0 MW) periods is considered an excursion.
- c. The differential pressure drop across each of the Baghouses 14 (0012) and 15 (0013) (Emission Point 017) shall be monitored continuously. Records shall be kept on site with entries including date and time of each reading, and readings results. If there were more than one reading taken during one day, the readings should be averaged on a daily basis to get a daily average (one for each 24-hr period). If there was just one reading taken during one day, this reading should be considered “a daily average”. A daily pressure drop average outside of the range of 7”-13” water gage is considered an excursion.

If an excursion occurs, corrective action, if necessary, shall be taken as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions (Requirement 3.4.4), and recordkeeping and reporting shall be initiated. Records shall be maintained on site as per Requirement 3.4.2.

**[45CSR§§30-5.1.c and 12.7, and 40C.F.R. §§64.3(a), 64.3(b) and 64.6(c)(2)][Furnace 15, Baghouses 14 & 15]**

- 5.2.6. Commencement of operation.** The permittee shall conduct the monitoring of the Furnace 15 and Baghouses 14 and 15 required under 40 CFR Part 64 upon issuance of this permit.

**[40 CFR §§ 64.7(a) and 64.6(d); 45CSR§30-5.1.c]**

- 5.2.7. Proper Maintenance** – At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

**[40 CFR § 64.7(b); 45CSR§30-5.1.c.] [Furnace 15, Baghouses 14 & 15]**

- 5.2.8. **Continued Operation** – Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of 40 CFR Part 64, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

**[40 CFR § 64.7(c); 45CSR§30-5.1.c] [Furnace 15, Baghouses 14 & 15]**

- 5.2.9. **Documentation of Need for Improved Monitoring** – After approval of monitoring under 40 CFR Part 64, if the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

**[40 CFR § 64.7(e); 45CSR§30-5.1.c] [Furnace 15, Baghouses 14 & 15]**

- 5.2.10. **Quality Improvement Plan (QIP)** – Based on the results of a determination made under 40 CFR §64.7(d)(2) (permit condition 3.4.4.b), the Administrator or the Director may require the permittee to develop and implement a QIP. If a QIP is required, then it shall be developed, implemented, and modified as required according to 40 CFR §§ 64.8(b) through (e). Refer to permit condition 3.5.10.B.2. for the reporting required when a QIP is implemented.

**[40 CFR § 64.8; 45CSR§30-5.1.c] [Furnace 15, Baghouses 14 & 15]**

### **5.3. Testing Requirements**

- 5.3.1. Tests that may be required by the Director to determine compliance with the emission limitations set forth in Sections 5.1.2 and 5.1.7 of this permit shall be conducted in accordance with the methods as set forth below. The Director may require a different test method or approve an alternative method in light of any new technology advancements that may occur. Compliance testing shall be conducted at maximum achievable load unless otherwise specified by the Director.

- a. Tests to determine compliance with PM emission limits shall be conducted in accordance with Method 5, or 5D, as set forth in 40 C.F.R. 60, Appendix A.
- b. Tests to determine compliance with SO<sub>2</sub> emission limits shall be conducted in accordance with Method 6, 6A, 6B, or 6C as set forth in 40 C.F.R. 60, Appendix A.

- c. Tests to determine compliance with CO emission limits shall be conducted in accordance with Method 10 or 10B as set forth in 40 C.F.R. 60, Appendix A.
- d. Tests to determine compliance with NO<sub>x</sub> emission limits shall be conducted in accordance with Method 7, 7A, 7B, 7C, 7D, or 7E as set forth in 40 C.F.R. 60, Appendix A.
- e. Tests to determine compliance with VOC emission limits shall be conducted in accordance with Method 25, or 25A as set forth in 40 C.F.R. 60, Appendix A.

**[45CSR14, R14-0017, A.17]**

5.3.2. The permittee shall conduct tests to determine compliance with the nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), volatile organic compounds (VOC), and particulate matter (PM) emission limitations in Section 5.1.7 for Furnace 15 (Stacks 016 and 017). The Methods listed below from Appendix A of 40 C.F.R. Part 60 shall be utilized for purposes of conducting performance tests, unless the Director approves an alternate or equivalent method. Requirements shall be met with respect to submission of a test protocol and notification of testing.

<u>Pollutant</u>	<u>Method</u>
Nitrogen Oxide (NO <sub>x</sub> )	7
Carbon Monoxide (CO)	10
Sulfur Dioxide (SO <sub>2</sub> )	6
Volatile Organic Compounds (VOC)	25
Particulate Matter (PM)	5
Hydrochloric Acid (HCl)	26
Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	8

Subsequent testing to determine compliance with the nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), VOC, particulate matter (PM) limitations of Section 5.1.7 and hydrochloric acid (HCl) and sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) limitations of Section 5.1.22, shall be conducted in accordance with the schedule set forth in the following table:

<b>Test</b>	<b>Test Results</b>	<b>Testing Frequency</b>
Annual	If annual testing is required, after two successive tests indicate mass emission rates between 50% and 90 % NO <sub>x</sub> , CO, SO <sub>2</sub> , PM, VOC, HCl, H <sub>2</sub> SO <sub>4</sub> limits	Once/3 years
Annual	If annual testing is required, after three successive tests indicate mass emission rates □ 50% of NO <sub>x</sub> , CO, SO <sub>2</sub> , PM, VOC, HCl, H <sub>2</sub> SO <sub>4</sub> limits	Once/5 years
Once/3 years	If testing is required once/3 years, after two successive tests indicate mass emission rates 50% of NO <sub>x</sub> , CO, SO <sub>2</sub> , PM, VOC, HCl, H <sub>2</sub> SO <sub>4</sub> limits	Once/5 years
Once/3 years	If testing is required once/3 years and any test indicates a mass emission rate □ 90% of NO <sub>x</sub> , CO, SO <sub>2</sub> , PM, VOC, HCl, H <sub>2</sub> SO <sub>4</sub> limits	Annual

Once/5 years	If testing is required once /5 years and any test indicates mass emission rates between 50% and 90 % of NO <sub>x</sub> , CO, SO <sub>2</sub> , PM, VOC, HCl, H <sub>2</sub> SO <sub>4</sub> limits	Once/3 years
Once/5 years	If testing is required once/5 years and any test indicates a mass emission rate <input type="checkbox"/> 90% of NO <sub>x</sub> , CO, SO <sub>2</sub> , PM, VOC, HCl, H <sub>2</sub> SO <sub>4</sub> limits	Annual

The permittee's stack tests were performed on May 7, 2009, June 14, 2011 and July 26, 2011. The subsequent testing frequency is indicated in the following Table:

Pollutant	Testing Frequency*	Next Test date
CO	Once/3 years	By July 26, 2014
PM	Once/5 years	By June 14, 2016
HCl	Once/5 years	By June 14, 2016
H <sub>2</sub> SO <sub>4</sub>	Once/5 years	By June 14, 2016
VOC	Once/5 years	By July 26, 2016
SO <sub>2</sub>	Once/5 years	By July 26, 2016
NO <sub>x</sub>	Annual for 3 consecutive years	By November 15, 2012

\*Testing frequency at the time of the permit issuance, and thereafter in accordance with the Table above.

**[45CSR§30-5.1.c, 45CSR§7-8.1 and CO-R14-E-2011-20, Order for Compliance, 4.c, Furnace 15 (003-07), (Stacks 016 and 017)]**

#### 5.4. Recordkeeping Requirements

5.4.1. The Director may modify the requirement to record data in Sections 5.2.6.a and 5.2.6.b to establish a different frequency of recording such data.

**[45CSR14, R14-0017, A.18.d]**

5.4.2. Under the provisions of this permit, the permittee shall maintain records containing the following information in a format that can be readily made available to the Director:

- Hours of operation of EAF 15 on at least a daily basis
- Type and quantity of material produced in Furnace 15 on at least a daily basis
- The average sulfur content of the coal and charcoal mix going into EAF 15 on at least a monthly basis
- The amount of coal and charcoal going into EAF 15 on at least a daily basis
- Volumetric gas flowrate(s) through the tapping hood systems of Furnaces 3, 6, 7, 14, and 15 or fan motor power consumption of each fan serving to move gases through the tapping hood systems of Furnaces 3, 6, 7, 14, and 15

- Total volumetric gas flowrate(s) to Baghouses 14 (0012) and 15 (0013) when servicing Furnace 15 or fan motor power consumption of each motor of each fan serving to move gases to Baghouses 14 (0012) and 15 (0013) when servicing Furnace 15
- For the baghouse(s) in use by Furnace 15, the baghouse(s) pressure drop data (for each section or module)
- Fan performance curves for all fans serving Furnace 15 and those fans serving the tapping operations for Furnaces 3, 6, 7, and 14
- Recordkeeping of poling operations to determine compliance with 45CSR§7-5.3 and Section 5.1.3, provided that failure to keep such records shall not be a violation of this permit, but failure to keep such records shall be a waiver of the defense of 45CSR§7-5.3 as to poling.
- Records of maintenance checks and standard operating procedures required in Sections 5.1.5 and 5.2.1.

Said records shall be maintained on site for a period of five (5) years. Said records shall be certified by a responsible official or his/her designee and made available to the Director of the Division of Air Quality or his/her duly authorized representative upon request.

**[45CSR14, R14-0017, A.19]**

- 5.4.3. The owner or operator of manufacturing process source(s) or combustion source(s) subject to 45CSR§§10- 4 (Section 5.1.23) shall maintain on-site a record of all required monitoring data as established in a monitoring plan pursuant to 45CSR§10-8.2.c. Such records shall be made available to the Director or his duly authorized representative upon request. Such records shall be retained on-site for a minimum of five years. Compliance with this requirement may be satisfied through compliance with the requirements of the approved 45CSR10 Monitoring Plan (Appendix A) submitted on December 8, 2004, and any amendments thereto.

**[45CSR§10-8.3.a]**

**5.4.4. Response to Excursions or Exceedances**

- a. Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range,



designated condition, or below the applicable emission limitation or standard, as applicable.

- b. Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

**[40 CFR § 64.7(d); 45CSR§30-5.1.c] [Furnace 15, Baghouses 14 & 15]**

#### **5.4.5. General recordkeeping requirements for 40 CFR Part 64 (CAM)**

The permittee shall comply with the recordkeeping requirements specified in permit conditions 3.4.1 and 3.4.2. The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR §64.8 (3.2.8) and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR Part 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

*[40 CFR § 64.9(b); 45CSR§30-5.1.c] [Furnace 15, Baghouses 14 & 15]*

### **5.5. Reporting Requirements**

- 5.5.1. Upon start-up of the chosen devices required to be installed, calibrated and maintained in Section 5.2.6, the permittee shall provide written notice of the type of device installed or of any future change in the type of device installed.

**[45CSR14, R14-0017, A.20]**

#### **5.5.2. General reporting requirements for 40 C.F.R. Part 64 (CAM)**

- a. On and after the date specified in 40 CFR §64.7(a) by which the permittee must use monitoring that meets the requirements of 40 CFR 64, the permittee shall submit CAM monitoring reports with the semi-annual monitoring report under permit condition 3.5.6. Incorporation by reference within the semi-annual monitoring report is not acceptable.
- b. A report for monitoring under 40 CFR 64 shall include, at a minimum, the information required under permit condition 3.5.8. and the following information, as applicable:
  - 1. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
  - 2. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
  - 3. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR §64.8. Upon completion of a QIP, the

permittee shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

**[40 CFR § 64.9(a); 45CSR§30-5.1.c] [Furnace 15, Baghouses 14 and 15]**

- 5.5.3. The permittee shall report details of all exceedances of the 2.15% coal and charcoal mixture sulfur content limit (as per requirement 5.1.18.1) on an annual basis.  
**[45CSR§30-5.1.c]**

**5.6. Compliance Plan**

- 5.6.1. None

## Attachment E-4

### Applicable Requirements for Microsilica Operations

***List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.***

The following regulatory requirements are set forth in R13-2052, with the applicable permit condition and regulatory requirement listed:

#### **6.1. Limitations and Standards**

6.1.1 The maximum amount of raw material processed in the dry microsilica facility shall not exceed 30,000 tons per year. Compliance with the annual throughput limit shall be determined using a 12 month rolling total. A 12 month rolling total shall mean the sum of the raw material throughput at any given time for the previous twelve (12) consecutive calendar months.

**[45CSR13, R13-2052, A.1]**

6.1.2 The maximum amount of raw material processed in the slurry mixing facility shall not exceed 10,000 tons per year. Compliance with the annual throughput limit shall be determined using a 12 month rolling total.

**[45CSR13, R13-2052, A.2]**

6.1.3 Particulate Matter emissions from the equipment and processes identified in permit application R13-2052 as DM-1, DM-2, DS-1, and DS-2 shall be controlled by baghouses. The baghouses shall be installed, operated, and maintained so as to achieve a minimum overall efficiency of 99%.

**[45CSR13, R13-2052, A.3]**

6.1.4 Particulate Matter (PM) emissions from the facility shall not exceed the following:

Emission Source	Pounds per Hour	Tons Per Year
DM-1	0.01	0.04
DM-2	0.01	0.04
DS-1	0.27	0.02
DS-2	0.27	0.02
<b>Total</b>	<b>0.56</b>	<b>0.12</b>

**[45CSR13, R13-2052, A.4]**

6.1.5 At the time a stationary source is alleged to be in compliance with an applicable emission standard and at reasonable times to be determined by the Director thereafter, appropriate tests consisting of visual determinations or conventional in-stack measurements or such

other tests the Director may specify shall be conducted to determine compliance.

**[45CSR§13-6.1, R13-2052, B.3]**

- 6.1.6 The permitted facility shall be constructed and operated in accordance with information filed in Permit Application R13-2052 and any amendments thereto. The Director may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.

**[45CSR13, R13-2052, C.3]**

## **Attachment E-5**

### **Monitoring/Testing/Recordkeeping/Reporting Requirements for Microsilica Operations**

***For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)***

The following regulatory requirements are set forth in R13-2052, with the applicable permit condition and regulatory requirement listed:

#### **6.2. Monitoring Requirements**

6.2.1 See Section 3.2.

#### **6.3. Testing Requirements**

6.3.1 See Section 3.3.

#### **6.4. Recordkeeping Requirements**

6.4.1 In order to determine compliance with Sections 6.1.1 and 6.1.2 of this permit, the permittee shall maintain certified monthly records of the amount of raw material processed in the slurry mixing facility and the dry microsilica facility.  
**[45CSR13, R13-2052, B.4]**

6.4.2. See Section 3.4.

#### **6.5. Reporting Requirements**

6.5.1 See Section 3.5.

#### **6.6. Compliance Plan**

6.6.1. None.

# **Attachment F**

## Compliance Schedule

## **Attachment F**

### **Schedule of Compliance**

None of the emissions units at WVA Manufacturing, LLC, are currently out of compliance. Therefore, this section is not applicable.

# **Attachment G**

## **Air Pollution Control Device Forms**



<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> 0005	<b>List all emission units associated with this control device.</b> Furnace No. 3 (Furnace and Tapping Emissions)	
<b>Manufacturer:</b> Wheelabrator	<b>Model number:</b> High Temperature	<b>Installation date:</b> 07/01/1974
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
PM	99%	97%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Wheelabrator High Temperature, Continuous, Automatic, Structural Baghouse with a pressure drop minimum of 3.0, average 7.0, and maximum of 18.0 inches of H <sub>2</sub> O, inlet and exit flow rates of 460,000 cf/min at 375 degrees F, closed pressure filter configuration and reverse air cleaning. There are 12 compartments of 144 Nomex bags each. The bags are 30 feet 9 inches long and 11.5 inches in diameter for a filtering area of 155,520 sqft and an air to cloth ratio of 3 ft/min.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> 0006	<b>List all emission units associated with this control device.</b> Furnace No. 6 and 7 (Furnace and Tapping Emissions)	
<b>Manufacturer:</b> Wheelabrator	<b>Model number:</b> High Temperature	<b>Installation date:</b> 07/01/1964
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
PM	99%	97%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Wheelabrator High Temperature, Continuous, Automatic, Structural Baghouse with a pressure drop minimum of 3.0, average 9.0, and maximum of 12.0 inches of H <sub>2</sub> O, inlet and exit flow rates of 280,000 cf/min at 375 degrees F, closed pressure filter configuration and reverse air cleaning. There are 10 compartments of 144 Nomex bags each. The bags are 30 feet 9 inches long and 11.5 inches in diameter for a filtering area of 129,600 sqft and an air to cloth ratio of 2 ft/min.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> 0007	<b>List all emission units associated with this control device.</b> Furnace No. 6 and 7 (Furnace and Tapping Emissions)	
<b>Manufacturer:</b> Wheelabrator	<b>Model number:</b> High Temperature, Structural	<b>Installation date:</b> 07/01/1973
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
PM	99%	97%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Wheelabrator High Temperature, Continuous, Automatic, Structural Baghouse with a pressure drop minimum of 3.0, average 9.0, and maximum of 12.0 inches of H <sub>2</sub> O, inlet and exit flow rates of 280,000 cf/min at 375 degrees F, closed pressure filter configuration and reverse air cleaning. There are 10 compartments of 144 Nomex bags each. The bags are 30 feet 9 inches long and 11.5 inches in diameter for a filtering area of 129,600 sqft and an air to cloth ratio of 2 ft/min.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> 0008	<b>List all emission units associated with this control device.</b> Furnace No. 6 and 7 (Furnace and Tapping Emissions)	
<b>Manufacturer:</b> Wheelabrator	<b>Model number:</b> High Temperature, Structural	<b>Installation date:</b> 07/01/1970
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
PM	99%	97%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Wheelabrator High Temperature, Continuous, Automatic, Structural Baghouse with a pressure drop minimum of 3.0, average 9.0, and maximum of 12.0 inches of H <sub>2</sub> O, inlet and exit flow rates of 280,000 cf/min at 375 degrees F, closed pressure filter configuration and reverse air cleaning. There are 10 compartments of 144 Nomex bags each. The bags are 30 feet 9 inches long and 11.5 inches in diameter for a filtering area of 129,600 sqft and an air to cloth ratio of 2 ft/min.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> <div style="text-align: center;">0011</div>	<b>List all emission units associated with this control device.</b> Furnace No. 9 (Furnace and Tapping Emissions)	
<b>Manufacturer:</b> Wheeabrator	<b>Model number:</b> High Temperature, Structural	<b>Installation date:</b> 07/01/1972
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
PM	99%	97%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Wheelabrator High Temperature, Continuous, Automatic, Structural Baghouse with a pressure drop minimum of 3.0, average 9.0, and maximum of 12.0 inches of H <sub>2</sub> O, inlet and exit flow rates of 240,000 cf/min at 375 degrees F, closed pressure filter configuration and reverse air cleaning. There are 10 compartments of 144 Nomex bags each. The bags are 30 feet 9 inches long and 11.5 inches in diameter for a filtering area of 129,600 sqft and an air to cloth ratio of 2 ft/min.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> 0012	<b>List all emission units associated with this control device.</b> Furnace No. 14, 15, and 16 (Furnace and Tapping Emissions)	
<b>Manufacturer:</b> Wheeabrator	<b>Model number:</b> High Temperature	<b>Installation date:</b> 07/01/1974
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
PM	99%	97%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Wheelabrator High Temperature, Continuous, Automatic, Structural Baghouse with a pressure drop minimum of 3.0, average 7.0, and maximum of 18.0 inches of H <sub>2</sub> O, inlet and exit flow rates of 460,000 cf/min at 375 degrees F, closed pressure filter configuration and reverse air cleaning. There are 12 compartments of 144 Nomex bags each. The bags are 30 feet 9 inches long and 11.5 inches in diameter for a filtering area of 155,520 sqft and an air to cloth ratio of 3 ft/min.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> 0013	<b>List all emission units associated with this control device.</b> Furnace No. 14, 15, and 16 (Furnace and Tapping Emissions)	
<b>Manufacturer:</b> Wheeabrator	<b>Model number:</b> High Temperature, Structural	<b>Installation date:</b> 07/01/1974
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
PM	99%	97%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Wheelabrator High Temperature, Continuous, Automatic, Structural Baghouse with a pressure drop minimum of 3.0, average 7.0, and maximum of 18.0 inches of H <sub>2</sub> O, inlet and exit flow rates of 460,000 cf/min at 375 degrees F, closed pressure filter configuration and reverse air cleaning. There are 12 compartments of 144 Nomex bags each. The bags are 30 feet 9 inches long and 11.5 inches in diameter for a filtering area of 155,520 sqft and an air to cloth ratio of 3 ft/min.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> <div style="text-align: center;">0014</div>	<b>List all emission units associated with this control device.</b> C6P Mix System and the C6P Metal Sizing and Cleaning System	
<b>Manufacturer:</b> Wheeabrator	<b>Model number:</b> High Temperature, Structural	<b>Installation date:</b> 07/01/1972
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
PM	99%	99%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Wheelabrator High Temperature, Continuous, Automatic, Structural Baghouse with a pressure drop minimum of 3.0, average 9.0, and maximum of 15.0 inches of H <sub>2</sub> O, inlet and exit flow rates of 99,360 cf/min at 90 degrees F, closed pressure filter configuration and reverse air cleaning. There are 6 compartments of 216 Dacron bags each. The bags are 20 feet, 9 inches long and 8 inches in diameter for a filtering area of 55,731 sqft and an air to cloth ratio of 2 ft/min.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		



<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> 0015	<b>List all emission units associated with this control device.</b> C7P Multistage Crusher	
<b>Manufacturer:</b> Fuller	<b>Model number:</b> Plenum Pulse	<b>Installation date:</b> 07/01/1968
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
PM	99%	99%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Fuller Plenum Pulse Baghouse with a pressure drop minimum of 4.0, average 6.0, and maximum of 8.0 inches of H <sub>2</sub> O, inlet and exit flow rates of 46,000 cf/min at 90 degrees F, closed pressure filter configuration and pulse air cleaning. There are 14 compartments of 48 Polyester felt bags each. The bags are 8 feet long and 5 inches in diameter for a filtering area of 7,033 sqft and an air to cloth ratio of 7 ft/min.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> 0016	<b>List all emission units associated with this control device.</b> C7P Loading Hopper	
<b>Manufacturer:</b> Fuller	<b>Model number:</b> Plenum Pulse	<b>Installation date:</b> 07/01/1994
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
PM	99%	99%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Fuller Plenum Pulse Baghouse with a pressure drop minimum of 4.0, average 6.0, and maximum of 8.0 inches of H <sub>2</sub> O, inlet and exit flow rates of 30,000 cf/min at 90 degrees F, closed pressure filter configuration and pulse air cleaning. There are 6 compartments of 488 Polyester felt bags each. The bags are 8 feet long and 5 inches in diameter for a filtering area of 4,875 sqft and an air to cloth ratio of 6 ft/min.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> 0017	<b>List all emission units associated with this control device.</b> C7P Impactor	
<b>Manufacturer:</b> Fuller	<b>Model number:</b> Plenum Pulse	<b>Installation date:</b> 07/01/1991
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
PM	99%	99%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Fuller Plenum Pulse Baghouse with a pressure drop minimum of 4.0, average 6.0, and maximum of 8.0 inches of H <sub>2</sub> O, inlet and exit flow rates of 12,000 cf/min at 90 degrees F, closed pressure filter configuration and pulse air cleaning. There are 4 compartments of 48 Polyester felt bags each. The bags are 8 feet long and 5 inches in diameter for a filtering area of 2,009 sqft and an air to cloth ratio of 6 ft/min.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> 0018A	<b>List all emission units associated with this control device.</b> 004-05, 004-06, 004-07, 004-08	
<b>Manufacturer:</b> Carco-Tech	<b>Model number:</b> 39-15-13-111945-TWH	<b>Installation date:</b> NA
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
Particulate (PM and PM 10)	99%	99.9%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Carbo-Tech Model 39-15-13-111945-TWH, low temp. dust collector, 60,000 cfm, equipped with 585 Fileterfab bags that measure 72" by 156" with collection efficiency of 99.9% down to 1 micron		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> 0021	<b>List all emission units associated with this control device.</b> Slurry Truck	
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Installation date:</b> NA
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Other (describe) <u>Slurry Truck</u></div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
PM	99%	50%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b>		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b>		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> 0022	<b>List all emission units associated with this control device.</b> Paved Portion of Plant Roadways	
<b>Manufacturer:</b> NA	<b>Model number:</b> NA	<b>Installation date:</b> NA
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Other (describe) <u>Sweeper Truck</u></div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
PM	99%	NA
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b>		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b>		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> Canister Dust Collector	<b>List all emission units associated with this control device.</b> 006-02	
<b>Manufacturer:</b> Donaldson Toit Built	<b>Model number:</b> 3EA-24741-00	<b>Installation date:</b> 1992
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
Particulate (PM and PM 10)	99%	90%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Shaker mechanism to removable canister.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> MS-1C	<b>List all emission units associated with this control device.</b> MS-1C	
<b>Manufacturer:</b> DCE Vokes	<b>Model number:</b> DML V20/10 F5	<b>Installation date:</b> 1983
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
Particulate (PM and PM 10)	99%	99%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Low temp. dust collector, 1 compartment, 215 sqft, continuous and automatic, compressed air pulse jet cleaning, air to cloth ratio of 9.3 to 1 ft/min, with 99%.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		



<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> MS-2C	<b>List all emission units associated with this control device.</b> MS-2C	
<b>Manufacturer:</b> Research Conttrell Flex Kleen	<b>Model number:</b> 100-CTWC-154-IIIG	<b>Installation date:</b> 1989
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
Particulate (PM and PM 10)	99%	99%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Low temp. dust collector, 1 compartment, 1,956 sqft, compressed air pulse jet cleaning, air to cloth ratio of 3.06 to 1 ft/min, with 99%.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> MS-2C	<b>List all emission units associated with this control device.</b> MS-2C	
<b>Manufacturer:</b> Research Conttrell Flex Kleen	<b>Model number:</b> 100-WSWC-121-IIIG	<b>Installation date:</b> 1983
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
Particulate (PM and PM 10)	99%	99%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Low temp. dust collector, 1 compartment, 1,537 sqft, compressed air pulse jet cleaning, air to cloth ratio of 2.76 to 1 ft/min, with 99%.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> MS-2C	<b>List all emission units associated with this control device.</b> MS-2C	
<b>Manufacturer:</b> Research Conttrell Flex Kleen	<b>Model number:</b> 100-BVTC-25-IIG	<b>Installation date:</b> 1989
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
Particulate (PM and PM 10)	99%	99%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Low temp. dust collector, 1 compartment, 318 sqft, compressed air pulse jet cleaning, air to cloth ratio of 2.98 to 1 ft/min, with 99%.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

<b>ATTACHMENT G - Air Pollution Control Device Form</b>		
<b>Control device ID number:</b> MS-2C	<b>List all emission units associated with this control device.</b> MS-2C	
<b>Manufacturer:</b> Research Conttrell Flex Kleen	<b>Model number:</b> 100-BVTC-25-IIG	<b>Installation date:</b> 1993
<b>Type of Air Pollution Control Device:</b>		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
<b>List the pollutants for which this device is intended to control and the capture and control efficiencies.</b>		
Pollutant	Capture Efficiency	Control Efficiency
Particulate (PM and PM 10)	99%	99%
<b>Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).</b> Low temp. dust collector, 1 compartment, 318 sqft, compressed air pulse jet cleaning, air to cloth ratio of 2.98 to 1 ft/min, with 99%.		
<b>Is this device subject to the CAM requirements of 40 C.F.R. 64?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, <b>Complete ATTACHMENT H</b> If No, <b>Provide justification.</b>		
<b>Describe the parameters monitored and/or methods used to indicate performance of this control device.</b> Existing Permit Requirement 3.2.2. The permittee shall maintain instrumentation on all dust collectors for pressure drop observations. The permittee shall maintain records of the maintenance performed on each baghouse. These records shall include all maintenance work performed on each dust collector including the frequency of bag/filter change outs. Records shall state the date and time of each dust collector inspection, the inspection results, and corrective action taken, if any. Records shall be maintained on site as per Requirement 3.4.2. <b>[45CSR§30-5.1.c.]</b> See Also, Attachment E-2		

## **Attachment H**

### **Compliance Assurance Monitoring (CAM) Plan Forms**

## ATTACHMENT H - Compliance Assurance Monitoring (CAM) Plan Form

For definitions and information about the CAM rule, please refer to 40 CFR Part 64. Additional information (including guidance documents) may also be found at <http://www.epa.gov/ttn/emc/cam.html>

### CAM APPLICABILITY DETERMINATION

- 1) Does the facility have a PSEU (Pollutant-Specific Emissions Unit considered separately with respect to EACH regulated air pollutant) that is subject to CAM (40 CFR Part 64), which must be addressed in this CAM plan submittal? To determine applicability, a PSEU must meet all of the following criteria (*If No, then the remainder of this form need not be completed*):
- ☒ YES    ☐ NO
- a. The PSEU is located at a major source that is required to obtain a Title V permit;
- b. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is NOT exempt;
- LIST OF EXEMPT EMISSION LIMITATIONS OR STANDARDS:
- NSPS (40 CFR Part 60) or NESHAP (40 CFR Parts 61 and 63) proposed after 11/15/1990.
  - Stratospheric Ozone Protection Requirements.
  - Acid Rain Program Requirements.
  - Emission Limitations or Standards for which a WVDEP Division of Air Quality Title V permit specifies a continuous compliance determination method, as defined in 40 CFR §64.1.
  - An emission cap that meets the requirements specified in 40 CFR §70.4(b)(12).
- c. The PSEU uses an add-on control device (as defined in 40 CFR §64.1) to achieve compliance with an emission limitation or standard;
- d. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than the Title V Major Source Threshold Levels; AND
- e. The PSEU is NOT an exempt backup utility power emissions unit that is municipally-owned.

### BASIS OF CAM SUBMITTAL

- 2) Mark the appropriate box below as to why this CAM plan is being submitted as part of an application for a Title V permit:
- ☒ RENEWAL APPLICATION. ALL PSEUs for which a CAM plan has NOT yet been approved need to be addressed in this CAM plan submittal.
- ☐ INITIAL APPLICATION (submitted after 4/20/98). ONLY large PSEUs (i. e., PSEUs with potential post-control device emissions of an applicable regulated air pollutant that are equal to or greater than Major Source Threshold Levels) need to be addressed in this CAM plan submittal.
- ☐ SIGNIFICANT MODIFICATION TO LARGE PSEUs. ONLY large PSEUs being modified after 4/20/98 need to be addressed in this cam plan submittal. For large PSEUs with an approved CAM plan, Only address the appropriate monitoring requirements affected by the significant modification.

### 3) <sup>a</sup> BACKGROUND DATA AND INFORMATION

Complete the following table for all PSEUs that need to be addressed in this CAM plan submittal. This section is to be used to provide background data and information for each PSEU in order to supplement the submittal requirements specified in 40 CFR §64.4. If additional space is needed, attach and label accordingly.

PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	<sup>b</sup> EMISSION LIMITATION or STANDARD	<sup>c</sup> MONITORING REQUIREMENT
003-01	Furnace No. 3	PM/PM10	Baghouse(s)	Regulation 7	<p>A device(s) capable of continuously measuring, and recording at least once per shift, the volumetric gas flowrate or fan motor power consumption across each fan serving to move gases through the tapping hoods and associated ductwork of Furnaces 3, 6, 7, 14, 15, and 16.</p> <p>A device(s) capable of continuously measuring, and recording at least once per shift, volumetric gas flowrate or fan motor power consumption across each fan serving to move all gases from Furnace 15 to the baghouse(s) serving Furnace 15.</p>
003-03	Furnace No. 6	PM/PM10	Baghouse(s)	Regulation 7	
003-04	Furnace No. 7	PM/PM10	Baghouse(s)	Regulation 7	
003-05	Furnace No. 9	PM/PM10	Baghouse(s)	Regulation 7	
003-06	Furnace No. 14	PM/PM10	Baghouse(s)	Regulation 7	
003-07	Furnace No. 15	PM/PM10	Baghouse(s)	26.57 PM/22.71 PM10	
003-08	Furnace No. 16	PM/PM10	Baghouse(s)	Regulation 7	
<u>EXAMPLE</u> Boiler No. 1	Wood-Fired Boiler	PM	Multiclone	45CSR§2-4.1.c.; 9.0 lb/hr	Monitor pressure drop across multiclone: Weekly inspection of multiclone

<sup>a</sup> If a control device is common to more than one PSEU, one monitoring plan may be submitted for the control device with the affected PSEUs identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a). If a single PSEU is controlled by more than one control device similar in design and operation, one monitoring plan for the applicable control devices may be submitted with the applicable control devices identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a).

<sup>b</sup> Indicate the emission limitation or standard for any applicable requirement that constitutes an emission limitation, emission standard, or standard of performance (as defined in 40 CFR §64.1).

<sup>c</sup> Indicate the monitoring requirements for the PSEU that are required by an applicable regulation or permit condition.

### CAM MONITORING APPROACH CRITERIA

Complete this section for EACH PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide monitoring data and information for EACH indicator selected for EACH PSEU in order to meet the monitoring design criteria specified in 40 CFR §64.3 and §64.4. If more than two indicators are being selected for a PSEU or if additional space is needed, attach and label accordingly with the appropriate PSEU designation, pollutant, and indicator numbers.

<b>4a) PSEU Designation:</b> <b>003-01 &amp; 03-08</b>	<b>4b) Pollutant:</b> <b>PM/PM10</b>	<b>4c) <sup>a</sup> Indicator No. 1:</b> Volumetric gas flow rate or fan motor power consumption.	<b>4d) <sup>a</sup> Indicator No. 2:</b> Pressure drop for 003-07 Only
<b>5a) GENERAL CRITERIA</b> Describe the <u>MONITORING APPROACH</u> used to measure the indicators:		Each gas flow measurement device shall have an accuracy of $\pm 10$ percent over its operating range, and each fan power consumption measurement device shall have an accuracy of $\pm 5$ percent over its operating range.	Each gas flow measurement device shall have an accuracy of $\pm 10$ percent over its operating range, and each fan power consumption measurement device shall have an accuracy of $\pm 5$ percent over its operating range.
<sup>b</sup> Establish the appropriate <u>INDICATOR RANGE</u> or the procedures for establishing the indicator range which provides a reasonable assurance of compliance:		Manufacture or plant prepared ranges	A device(s) capable of continuously measuring and recording pressure drop across each separate compartment of Baghouses 14 (0012) and 15 (0013) when servicing Furnace 15. Each such device shall have an accuracy of $\pm 5$ percent over its operating range.
<b>5b) PERFORMANCE CRITERIA</b> Provide the <u>SPECIFICATIONS FOR OBTAINING REPRESENTATIVE DATA</u> , such as detector location, installation specifications, and minimum acceptable accuracy:		Existing Equipment	Existing Equipment
<sup>c</sup> For new or modified monitoring equipment, provide <u>VERIFICATION PROCEDURES</u> , including manufacturer's recommendations, <u>TO CONFIRM THE OPERATIONAL STATUS</u> of the monitoring:		Existing Equipment	Existing Equipment
Provide <u>QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PRACTICES</u> that are adequate to ensure the continuing validity of the data, (i.e., daily calibrations, visual inspections, routine maintenance, RATA, etc.):		Gauges calibrated per manufacturer's specifications	Gauges calibrated per manufacturer's specifications
<sup>d</sup> Provide the <u>MONITORING FREQUENCY</u> :		Continuous Recording	Continuous Recording
Provide the <u>DATA COLLECTION PROCEDURES</u> that will be used:		Electronic or manual collection of data	Electronic or manual collection of data
Provide the <u>DATA AVERAGING PERIOD</u> for the purpose of determining whether an excursion or exceedance has occurred:		NA	NA

<sup>a</sup> Describe all indicators to be monitored which satisfies 40 CFR §64.3(a). Indicators of emission control performance for the control device and associated capture system may include measured or predicted emissions (including visible emissions or opacity), process and control device operating parameters that affect control device (and capture system) efficiency or emission rates, or recorded findings of inspection and maintenance activities.

<sup>b</sup> Indicator Ranges may be based on a single maximum or minimum value or at multiple levels that are relevant to distinctly different operating conditions, expressed as a function of process variables, expressed as maintaining the applicable indicator in a particular operational status or designated condition, or established as interdependent between more than one indicator. For CEMS, COMS, or PEMS, include the most recent certification test for the monitor.

<sup>c</sup> The verification for operational status should include procedures for installation, calibration, and operation of the monitoring equipment, conducted in accordance with the manufacturer's recommendations, necessary to confirm the monitoring equipment is operational prior to the commencement of the required monitoring.

<sup>d</sup> Emission units with post-control PTE  $\geq 100$  percent of the amount classifying the source as a major source (i.e., Large PSEU) must collect four or more values per hour to be averaged. A reduced data collection frequency may be approved in limited circumstances. Other emission units must collect data at least once per 24 hour period.



### ***RATIONALE AND JUSTIFICATION***

Complete this section for EACH PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide rationale and justification for the selection of EACH indicator and monitoring approach and EACH indicator range in order to meet the submittal requirements specified in 40 CFR §64.4.

6a) PSEU Designation:  
003-01, 03-08

6b) Regulated Air Pollutant:  
PM/PM10

7) **INDICATORS AND THE MONITORING APPROACH:** Provide the rationale and justification for the selection of the indicators and the monitoring approach used to measure the indicators. Also provide any data supporting the rationale and justification. Explain the reasons for any differences between the verification of operational status or the quality assurance and control practices proposed, and the manufacturer's recommendations. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

Per the Permit R14-0017 and R30-019-00001-2012

8) **INDICATOR RANGES:** Provide the rationale and justification for the selection of the indicator ranges. The rationale and justification shall indicate how EACH indicator range was selected by either a COMPLIANCE OR PERFORMANCE TEST, a TEST PLAN AND SCHEDULE, or by ENGINEERING ASSESSMENTS. Depending on which method is being used for each indicator range, include the specific information required below for that specific indicator range. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

- COMPLIANCE OR PERFORMANCE TEST (Indicator ranges determined from control device operating parameter data obtained during a compliance or performance test conducted under regulatory specified conditions or under conditions representative of maximum potential emissions under anticipated operating conditions. Such data may be supplemented by engineering assessments and manufacturer's recommendations). The rationale and justification shall INCLUDE a summary of the compliance or performance test results that were used to determine the indicator range, and documentation indicating that no changes have taken place that could result in a significant change in the control system performance or the selected indicator ranges since the compliance or performance test was conducted.
- TEST PLAN AND SCHEDULE (Indicator ranges will be determined from a proposed implementation plan and schedule for installing, testing, and performing any other appropriate activities prior to use of the monitoring). The rationale and justification shall INCLUDE the proposed implementation plan and schedule that will provide for use of the monitoring as expeditiously as practicable after approval of this CAM plan, except that in no case shall the schedule for completing installation and beginning operation of the monitoring exceed 180 days after approval.
- ENGINEERING ASSESSMENTS (Indicator Ranges or the procedures for establishing indicator ranges are determined from engineering assessments and other data, such as manufacturers' design criteria and historical monitoring data, because factors specific to the type of monitoring, control device, or PSEU make compliance or performance testing unnecessary). The rationale and justification shall INCLUDE documentation demonstrating that compliance testing is not required to establish the indicator range.

RATIONALE AND JUSTIFICATION:

Indicator ranges may vary for each baghouse.

# **Attachment I**

## Potential to Emit Calculations

WVA Manufacturing, LLC  
Attachment I - Potential to Emit Calculations

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
002--05	raw mtrl. Stockpiles - active day	PM10	PM10	yes	6.732	lb/acre active day	None				Acre of storage	14	Active Days	365	34401	17.2003	0.0000	34401	17.20
002--05	raw mtrl. Stockpiles - inactive day	PM10	PM10	yes	1.785	lb/acre inactive day	None					14	Inactive Days	0	0	0.0000	0.0000	0	0
002--05	raw mtrl. Stockpiles - active day	PM2.5	PM2.5	yes	3.5	lb/acre active day	None					14	Active Days	365	17885	8.9425	0.0000	17885	8.94
002--05	raw mtrl. Stockpiles - inactive day	PM2.5	PM2.5	yes	0.94	lb/acre inactive day	None					14	Inactive Days	0	0	0.0000	0.0000	0	0
002--05	raw mtrl. Stockpiles - active day	TSP (Particulate)	PT	yes	13.2	lb/acre active day	None					14	Active Days	365	67452	33.7260	0.0000	67452	33.73
002--05	raw mtrl. Stockpiles - inactive day	TSP (Particulate)	PT	yes	3.5	lb/acre inactive day	None					14	Inactive Days	0	0	0.0000	0.0000	0	0
002--06	C6M mix system - truck dump	PM10	PM10	yes	0.06	lb/ton	None				C6M Mix system throughput (sand/clay)	145,416			8725	4.3625	0.0000	8725	4.3625
002--06	C6M mix system - truck dump	PM2.5	PM2.5	yes	0.036	lb/ton	None					145,416			5235	2.6175	0.0000	5235	2.6175
002--06	C6M mix system - truck dump	TSP (Particulate)	PT	yes	0.12	lb/ton	None					145,416			17450	8.7250	0.0000	17450	8.7250
002--06	C6M mix system - conveyor to elevator	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			145,416			86	0.0432	0.9801	4340.6	2.1703
002--06	C6M mix system - conveyor to loading station	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			145,416			86	0.0432	0.9801	4340.6	2.1703
002--06	C6M mix system - conveyor to storage bin	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			145,416			86	0.0432	0.9801	4340.6	2.1703
002--06	C6M mix system - dump to storage bin	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			145,416			86	0.0432	0.9801	4340.6	2.1703
002--06	C6M mix system - elevator	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			145,416			86	0.0432	0.9801	4340.6	2.1703
002--06	C6M mix system - loading	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			145,416			86	0.0432	0.9801	4340.6	2.1703
002--06	C6M mix system - conveyor to elevator	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			145,416			52	0.0259	0.9801	2604.3	1.3022
002--06	C6M mix system - conveyor to loading station	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			145,416			52	0.0259	0.9801	2604.3	1.3022
002--06	C6M mix system - conveyor to storage bin	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			145,416			52	0.0259	0.9801	2604.3	1.3022
002--06	C6M mix system - dump to storage bin	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			145,416			52	0.0259	0.9801	2604.3	1.3022
002--06	C6M mix system - elevator	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			145,416			52	0.0259	0.9801	2604.3	1.3022
002--06	C6M mix system - loading	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			145,416			52	0.0259	0.9801	2604.3	1.3022
002--06	C6M mix system - conveyor to elevator	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			145,416			173	0.0864	0.9801	8681.1	4.3406
002--06	C6M mix system - conveyor to loading station	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			145,416			173	0.0864	0.9801	8681.1	4.3406
002--06	C6M mix system - conveyor to storage bin	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			145,416			173	0.0864	0.9801	8681.1	4.3406
002--06	C6M mix system - dump to storage bin	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			145,416			173	0.0864	0.9801	8681.1	4.3406
002--06	C6M mix system - elevator	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			145,416			173	0.0864	0.9801	8681.1	4.3406
002--06	C6M mix system - loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			145,416			173	0.0864	0.9801	8681.1	4.3406
002--06	C6M mix system - conveyor to elevator	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		145,416			26	0.0131	0.6999	87.2	0.0436
002--06	C6M mix system - conveyor to loading station	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		145,416			26	0.0131	0.6999	87.2	0.0436
002--06	C6M mix system - conveyor to storage bin	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		145,416			26	0.0131	0.6999	87.2	0.0436
002--06	C6M mix system - dump to storage bin	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		145,416			26	0.0131	0.6999	87.2	0.0436
002--06	C6M mix system - elevator	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		145,416			26	0.0131	0.6999	87.2	0.0436
002--06	C6M mix system - loading	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		145,416			26	0.0131	0.6999	87.2	0.0436
002--06	C6M mix system - conveyor to elevator	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		145,416			16	0.0079	0.6999	52.3	0.0262
002--06	C6M mix system - conveyor to loading station	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		145,416			16	0.0079	0.6999	52.3	0.0262
002--06	C6M mix system - conveyor to storage bin	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		145,416			16	0.0079	0.6999	52.3	0.0262
002--06	C6M mix system - dump to storage bin	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		145,416			16	0.0079	0.6999	52.3	0.0262

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
002--06	C6M mix system - elevator	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		145,416			16	0.0079	0.6999	52.3	0.0262
002--06	C6M mix system - loading	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		145,416			16	0.0079	0.6999	52.3	0.0262
002--06	C6M mix system - conveyor to elevator	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		145,416			52	0.0262	0.6999	174.5	0.0872
002--06	C6M mix system - conveyor to loading station	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		145,416			52	0.0262	0.6999	174.5	0.0872
002--06	C6M mix system - conveyor to storage bin	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		145,416			52	0.0262	0.6999	174.5	0.0872
002--06	C6M mix system - dump to storage bin	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		145,416			52	0.0262	0.6999	174.5	0.0872
002--06	C6M mix system - elevator	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		145,416			52	0.0262	0.6999	174.5	0.0872
002--06	C6M mix system - loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		145,416			52	0.0262	0.6999	174.5	0.0872
002--07	C3M Mix System - Reversible shuttle Conveyors #12 and 13	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M Mix System - 36" Reversible shuttle Conveyor #10	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M Mix System - check weigh hoppers to skip hoist	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M mix system - conveyor to skip hoist	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M Mix System - Drop to bins	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M Mix System - dump to check weigh hoppers	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M mix system - dump to mix house stq. hopper	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M mix system - skip hoist to tram car	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M Mix System - Skip Hoist to Tram Cars	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M Mix System - Skip Hoist to Tram Cars	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M mix system - tram car to furnace hopper	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M Mix System - Vibrating Feeder of weigh hopper to 48" Pocket Belt #8	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M Mix System - Vibrating Feeder to weigh hopper	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M Mix System - weigh hopper to 36" conveyors	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M mix system - weigh hopper to conveyor	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M mix system -dump to weigh hopper	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	Mix Delivery System to C3M Mix System - 36" conveyor to Weight Bin	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	Mix Delivery System to C3M Mix System - 36" reversible conveyor to	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	Mix Delivery System to C3M Mix System - Apron conveyor to 48"	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	Mix Delivery System to C3M Mix System - Conveyor to Screener	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	Mix Delivery System to C3M Mix System - Pocket Belt #2 to 36"	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	Mix Delivery System to C3M Mix System - Railcar unloading	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	Mix Delivery System to C3M Mix System - Screener to 48" pocket Belt	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	Mix Delivery System to C3M Mix System - Unloading to Apron conveyor	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	Mix Delivery System to C3M Mix System - Vibrating Feeder	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	Mix Delivery System to C3M Mix System -36" Reversible conveyor to	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			14195	7.0973	0.6999	47304.0	23.65
002--07	C3M Mix System - Reversible shuttle Conveyors #12 and 13	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M Mix System - 36" Reversible shuttle Conveyor #10	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M Mix System - check weigh hoppers to skip hoist	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M mix system - conveyor to skip hoist	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M Mix System - Drop to bins	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M Mix System - dump to check weigh hoppers	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
002--07	C3M mix system - dump to mix house stg. hopper	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M mix system - skip hoist to tram car	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M Mix System - Skip Hoist to Tram Cars	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M Mix System - Skip Hoist to Tram Cars	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M mix system - tram car to furnace hopper	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M Mix System - Vibrating Feeder of weigh hopper to 48" Pocket Belt #8	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M Mix System - Vibrating Feeder to weigh hopper	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M Mix System - weigh hopper to 36" conveyors	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M mix system - weigh hopper to conveyor	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M mix system -dump to weigh hopper	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	Mix Delivery System to C3M Mix System - 36" conveyor to Weight Bin	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	Mix Delivery System to C3M Mix System - 36" reversible conveyor to	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	Mix Delivery System to C3M Mix System - Apron conveyor to 48"	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	Mix Delivery System to C3M Mix System - Conveyor to Screener	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	Mix Delivery System to C3M Mix System - Pocket Belt #2 to 36"	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	Mix Delivery System to C3M Mix System - Railcar unloading	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	Mix Delivery System to C3M Mix System - Screener to 48" pocket Belt	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	Mix Delivery System to C3M Mix System - Unloading to Apron conveyor	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	Mix Delivery System to C3M Mix System - Vibrating Feeder	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	Mix Delivery System to C3M Mix System -36" Reversible conveyor to	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			8517	4.2584	0.6999	28382.4	14.19
002--07	C3M Mix System - Reversible shuttle Conveyors #12 and 13	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M Mix System - 36" Reversible shuttle Conveyor #10	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M Mix System - check weigh hoppers to skip hoist	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M mix system - conveyor to skip hoist	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M Mix System - Drop to bins	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M Mix System - dump to check weigh hoppers	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M mix system - dump to mix house stg. hopper	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M mix system - skip hoist to tram car	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M Mix System - Skip Hoist to Tram Cars	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M Mix System - Skip Hoist to Tram Cars	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M mix system - tram car to furnace hopper	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M Mix System - Vibrating Feeder of weigh hopper to 48" Pocket Belt #8	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M Mix System - Vibrating Feeder to weigh hopper	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M Mix System - weigh hopper to 36" conveyors	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M mix system - weigh hopper to conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	C3M mix system -dump to weigh hopper	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	C3M Mix system throughput	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	Mix Delivery System to C3M Mix System - 36" conveyor to Weight Bin	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	Mix Delivery System to C3M Mix System - 36" reversible conveyor to	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	Mix Delivery System to C3M Mix System - Apron conveyor to 48"	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	Mix Delivery System to C3M Mix System - Conveyor to Screener	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
002--07	Mix Delivery System to C3M Mix System - Pocket Belt #2 to 36"	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	Mix Delivery System to C3M Mix System - Railcar unloading	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	Mix Delivery System to C3M Mix System - Screener to 48" pocket Belt	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	Mix Delivery System to C3M Mix System - Unloading to Apron conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	Mix Delivery System to C3M Mix System - Vibrating Feeder	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
002--07	Mix Delivery System to C3M Mix System -36" Reversible conveyor to	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Mix Delivery System	788,400			28389	14.1945	0.6999	94608.0	47.30
003--01	no. 3 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	36	0.0180	0.0000	36	0.02
003--01	no. 3 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.00007	0.00000	0.14619	0.00007
003--01	no. 3 Fce.	1,2-Dichloroethane (ethylidene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	37	0.0184	0.0000	37	0.02
003--01	no. 3 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	42	0.0209	0.0000	42	0.02
003--01	no. 3 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.000000005	0.00000	0.00001	0.000000005
003--01	no. 3 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.000014	0.00000	0.02787	0.00001
003--01	no. 3 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0001	0.0000	0.23	0.00011
003--01	no. 3 Fce.	2,4-Dinitrotoluene	121142	no	2.80E-07	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0.02	0.000009
003--01	no. 3 Fce.	2-Chloroaceteophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	44	0.0221	0.0000	44	0.02
003--01	no. 3 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0001	0.0000	0	0.00
003--01	no. 3 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	36	0.0180	0.0000	36	0.02
003--01	no. 3 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	1052	0.5258	0.0000	1052	0.53
003--01	no. 3 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	1	0.0005	0.0000	1	0.00
003--01	no. 3 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			373	0.1867	0.0000	373	0.19
003--01	no. 3 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016			2502	1.2508	0.0000	2502	1.25
003--01	no. 3 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.000027
003--01	no. 3 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0
003--01	no. 3 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99		No.3 Furnace coal type materials	38,016			1	0.0003	0.8910	6.2	0.00
003--01	no. 3 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.3 furnace wood type materials	73,495			1	0.0003	0.8910	5.5	0.00
003--01	no. 3 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.3 Furnace alloy production	35,040			7	0.0033	0.8910	59.8	0.03
003--01	no. 3 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.3 Furnace wood type materials	73,495			0	0.0000	0.8910	0.0	0.00
003--01	no. 3 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			469	0.2345	0.0000	469	0.23
003--01	no. 3 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0001	0.0000	0	0.00
003--01	no. 3 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	44	0.0221	0.0000	44	0.02
003--01	no. 3 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99		No.3 Furnace coal type materials	38,016	Btu of Coal	14000.00	0.9	0.0004	0.9801	42.9	0.02
003--01	no. 3 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.3 Furnace wood type materials	73,495			0	0.0000	0.9801	0.4	0.00
003--01	no. 3 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0001	0.0000	0	0.00
003--01	no. 3 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	9	0.0044	0.0000	9	0.00
003--01	no. 3 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	2	0.0012	0.0000	2	0.00
003--01	no. 3 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	10	0.0050	0.0000	10	0.01
003--01	no. 3 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	19	0.0095	0.0000	19	0.01

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--01	no. 3 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99		No.3 Furnace coal type materials	38,016	Btu of Coal	14000.00	3.0	0.0015	0.8910	27.1	0.01
003--01	no. 3 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.3 Furnace wood type materials	73,495			0	0.0002	0.8910	2.8	0.00
003--01	no. 3 Fce.	Carbon Dioxide	124389	no	5.68E+03	lb/ton of charcoal	None		0.99		No.3 Furnace charcoal type materials	3,802	CO2 Stack Test Ratio	1.00	21611336	10805.6678	0.0000		
003--01	no. 3 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	CO2 Stack Test Ratio	1.00	225172570	112586.2848	0.0000	225172570	112,586.28
003--01	no. 3 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	CO2 Stack Test Ratio	1.00	252073151	126036.5755	0.0000	252073151	126,036.58
003--01	no. 3 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	8	0.0041	0.0000	8	0.00
003--01	no. 3 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	57	0.0285	0.0000	57	0.03
003--01	no. 3 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495			70	0.0352	0.0000	70	0.04
003--01	no. 3 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	1	0.0007	0.0000	1	0.00
003--01	no. 3 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	42	0.0209	0.0000	42	0.02
003--01	no. 3 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	4	0.0019	0.0000	4	0.00
003--01	no. 3 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	35	0.0177	0.0000	35	0.02
003--01	no. 3 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	15	0.0075	0.0000	15	0.01
003--01	no. 3 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	65	0.0323	0.0000	65	0.03
003--01	no. 3 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99		No.3 Furnace alloy production	35,040			6	0.0029	0.9801	295.8	0.15
003--01	no. 3 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.3 Furnace wood type materials	73,495			0	0.0000	0.9801	0.0	0.00
003--01	no. 3 Fce.	CO	CO	yes	21.60	lb/ton of alloy	None				No.3 Furnace alloy production	35,040			756864	378.4320	0.0000	756864	378.43
003--01	no. 3 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99		No.3 Furnace coal type materials	38,016			4	0.0019	0.9801	189.1	0.09
003--01	no. 3 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.3 Furnace wood type materials	73,495			0	0.0000	0.9801	2.5	0.00
003--01	no. 3 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016			11	0.0055	0.0000	11	0.01
003--01	no. 3 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	3	0.0015	0.0000	3	0.00
003--01	no. 3 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	6	0.0030	0.0000	6	0.00
003--01	no. 3 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	39	0.0196	0.0000	39	0.02
003--01	no. 3 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	3	0.0013	0.0000	3	0.00
003--01	no. 3 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	3	0.0013	0.0000	3	0.00
003--01	no. 3 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			211	0.1056	0.0000	211	0.11
003--01	no. 3 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495			0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			92389	46.1944	0.0000	92389	46.19
003--01	no. 3 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	4	0.0021	0.0000	4	0.00
003--01	no. 3 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			4205	2.1024	0.0000	4205	2.10
003--01	no. 3 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	37	0.0183	0.0000	37	0.02
003--01	no. 3 Fce.	Lead	7439921	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99		No.3 Furnace alloy production	35,040			32	0.0158	0.8910	289.3	0.14
003--01	no. 3 Fce.	Lead compounds	PBC	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99		No.3 Furnace alloy production	35,040			32	0.0158	0.8910	289.3	0.14
003--01	no. 3 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99		No.3 Furnace alloy production	35,040			10	0.0051	0.9801	512.4	0.26
003--01	no. 3 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.3 furnace wood type materials	73,495			0	0.0000	0.9801	0.0	0.00
003--01	no. 3 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			0	0.0000	0.0000	0.0	0.00
003--01	no. 3 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495			0	0.0000	0.0000	0.0	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--01	no. 3 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			27617	13.8087	0.0000	27617	13.81
003--01	no. 3 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	1	0.0006	0.0000	1	0.00
003--01	no. 3 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	39	0.0196	0.0000	39	0.02
003--01	no. 3 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	4	0.0018	0.0000	4	0.00
003--01	no. 3 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	48	0.0238	0.0000	48	0.02
003--01	no. 3 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	1	0.0005	0.0000	1	0.00
003--01	no. 3 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	1	0.0006	0.0000	1	0.00
003--01	no. 3 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	2	0.0011	0.0000	2	0.00
003--01	no. 3 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			7	0.0037	0.0000	7	0.00
003--01	no. 3 Fce.	hthalene	91203	no	1.12E-06	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	hthalene	91203	no	0.00E+00	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99		No.3 Furnace alloy production	35,040			0	0.0002	0.8910	4.5	0.00
003--01	no. 3 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.3 furnace wood type materials	73,495			0	0.0000	0.8910	0.0	0.00
003--01	no. 3 Fce.	NOx	10024972	no	3.00E-02	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016			1129	0.5645	0.0000	1129	0.56
003--01	no. 3 Fce.	NOx	10024972	no	1.35E-01	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495			9837	4.9186	0.0000	9837	4.92
003--01	no. 3 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None				No.3 Furnace alloy production	35,040			933080	466.5401	0.0000	933080	466.54
003--01	no. 3 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0001	0.0000	0	0.00
003--01	no. 3 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	9	0.0044	0.0000	9	0.00
003--01	no. 3 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	1	0.0005	0.0000	1	0.00
003--01	no. 3 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	65	0.0323	0.0000	65	0.03
003--01	no. 3 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	None	No.3 Furnace alloy production	35,040			99.2	0.04958	0.8910	909.8	0.45
003--01	no. 3 Fce.	PM10	PM10	yes	2.58	lb/ton of alloy	Baghouse	0.99	0.99	None	No.3 Furnace alloy production	35,040			90263	45.1315	0.9801	4535831.2	2,267.92
003--01	no. 3 Fce.	PM2.5	PM2.5	yes	1.91	lb/ton of alloy	Baghouse	0.99	0.99	None	No.3 Furnace alloy production	35,040			66898	33.4492	0.9801	3361727.0	1,680.86
003--01	no. 3 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			1	0.0005	0.0000	1	0.00
003--01	no. 3 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495			0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			1	0.0005	0.0000	1	0.00
003--01	no. 3 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	24	0.0120	0.0000	24	0.01
003--01	no. 3 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	77	0.0386	0.0000	77	0.04
003--01	no. 3 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Baghouse	0	0.99		No.3 Furnace coal type materials	38,016			98	0.0489	0.0000	97.9	0.05
003--01	no. 3 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Baghouse	0	0.99		No.3 furnace wood type materials	73,495			2	0.0011	0.0000	2.1	0.00
003--01	no. 3 Fce.	SOx	SO2	yes	28.27	lb/ton of alloy	None				No.3 Furnace alloy production	35,040			990441	495.2203	0.0000	990441	495.22
003--01	no. 3 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	2	0.0008	0.0000	2	0.00
003--01	no. 3 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	2407	1.2036	0.0000	2407	1.20
003--01	no. 3 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	3	0.0014	0.0000	3	0.00
003--01	no. 3 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	15	0.0076	0.0000	15	0.01
003--01	no. 3 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	1166	0.5828	0.0000	1166	0.58
003--01	no. 3 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	38	0.0190	0.0000	38	0.02
003--01	no. 3 Fce.	TSP (Particulate)	PT	yes	3.68	lb/ton of alloy	Baghouse	0.99	0.99	None	No.3 Furnace alloy production	35,040			128796	64.3978	0.9801	6472144.5	3,236.07



Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--01	no. 3 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None				No.3 Furnace alloy production	35,040			51158	25.5792	0.0000	51158	25.58
003--01	no. 3 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	2	0.0012	0.0000	2	0.00
003--01	no. 3 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	1,2-Dichloroethane (ethylidene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	2,4-Dinitrotoluene	121142	no	0.00E+00	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	2-Chloroaceteophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	11	0.0054	0.0000	11	0.01
003--01	no. 3 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			4	0.0019	0.0000	4	0.00
003--01	no. 3 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016			26	0.0128	0.0000	26	0.01
003--01	no. 3 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99	0.7	No.3 Furnace coal type materials	38,016			0.021	0.0000	0.6930	0.1	0.00
003--01	no. 3 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.3 furnace wood type materials	73,495			0	0.0000	0.6930	0.1	0.00
003--01	no. 3 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.3 Furnace alloy production	35,040			0	0.0001	0.8910	1.8	0.00
003--01	no. 3 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.3 furnace wood type materials	73,495			0	0.0000	0.8910	0.0	0.00
003--01	no. 3 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			5	0.0024	0.0000	5	0.00
003--01	no. 3 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99	0.7	No. 3 Furnace alloy production	35,040	Btu of Coal	14000.00	0.241	0.0001	0.6930	0.8	0.00
003--01	no. 3 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.3 furnace wood type materials	73,495			0	0.0000	0.6930	0.0	0.00
003--01	no. 3 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0001	0.0000	0	0.00
003--01	no. 3 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0001	0.0000	0	0.00
003--01	no. 3 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99	0.7	No. 3 Furnace alloy production	35,040	Btu of Coal	14000.00	0.083	0.0000	0.6930	0.3	0.00
003--01	no. 3 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.3 furnace wood type materials	73,495			0	0.0000	0.6930	0.0	0.00
003--01	no. 3 Fce.	Carbon Dioxide	124389	no	5.68E+03	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	CO2 Stack Test Ratio	1.00	2182963	1091.4816	0.0000		

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--01	no. 3 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	CO2 Stack Test Ratio	1.00	2274470	1137.2352	0.0000	2274470	1,137.24
003--01	no. 3 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	CO2 Stack Test Ratio	1.00	2546193	1273.0967	0.0000	2546193	1,273.10
003--01	no. 3 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	1	0.0003	0.0000	1	0.00
003--01	no. 3 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495			1	0.0004	0.0000	1	0.00
003--01	no. 3 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0001	0.0000	0	0.00
003--01	no. 3 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	1	0.0003	0.0000	1	0.00
003--01	no. 3 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No.3 Furnace alloy production	35,040			2	0.0009	0.6930	5.8	0.00
003--01	no. 3 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.3 furnace wood type materials	73,495			0	0.0000	0.6930	0.0	0.00
003--01	no. 3 Fce.	CO	CO	yes	21.60	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			7645	3.8225	0.0000	7645	3.82
003--01	no. 3 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99	0.7	No.3 Furnace coal type materials	38,016			1.152	0.0006	0.6930	3.8	0.00
003--01	no. 3 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.3 furnace wood type materials	73,495			0	0.0000	0.6930	0.0	0.00
003--01	no. 3 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016			0	0.0001	0.0000	0	0.00
003--01	no. 3 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99	0.7	No.3 Furnace alloy production	35,040			2	0.0011	0.0000	2	0.00
003--01	no. 3 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No. 3 Furnace alloy production	35,040			933	0.4666	0.0000	933	0.47
003--01	no. 3 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			42	0.0212	0.0000	42	0.02
003--01	no. 3 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	Lead	7439921	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.3 Furnace alloy production	35,040			1	0.000478	0.6930	3.1	0.00
003--01	no. 3 Fce.	Lead compounds	PBC	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.3 Furnace alloy production	35,040			1	0.000478	0.8910	8.8	0.00
003--01	no. 3 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No.3 Furnace alloy production	35,040			3	0.0015	0.6930	10.1	0.01
003--01	no. 3 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.3 furnace wood type materials	73,495			0	0.0000	0.6930	0.0	0.00
003--01	no. 3 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None	0	0.99	0	No.3 Furnace alloy production	35,040			0	0.0000	0.0000	0.0	0.00
003--01	no. 3 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None	0	0.99	0	No.3 furnace wood type materials	73,495			0	0.0000	0.0000	0.0	0.00
003--01	no. 3 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			279	0.1395	0.0000	279	0.14
003--01	no. 3 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--01	no. 3 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	hthalene	91203	no	1.12E-06	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	hthalene	91203	no	0.00E+00	lb/ton of wood	None		0.99			35,040	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.3 Furnace alloy production	35,040			0	0.0000	0.8910	0.1	0.00
003--01	no. 3 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.3 furnace wood type materials	73,495			0	0.0000	0.8910	0.0	0.00
003--01	no. 3 Fce.	NOx	10024972	no	3.00E-02	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016			12	0.0058	0.0000	12	0.01
003--01	no. 3 Fce.	NOx	10024972	no	1.35E-01	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495			100	0.0502	0.0000	100	0.05
003--01	no. 3 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			9425	4.7125	0.0000	9425	4.71
003--01	no. 3 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	1	0.0003	0.0000	1	0.00
003--01	no. 3 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.3 Furnace alloy production	35,040			3.0	0.00150	0.6930	9.8	0.00
003--01	no. 3 Fce.	PM10	PM10	yes	2.58	lb/ton of alloy	Building	0.7	0.9999	0.99	No.3 Furnace alloy production	35,040			27352	13.6762	0.6999	91153.5	45.58
003--01	no. 3 Fce.	PM2.5	PM2.5	yes	1.91	lb/ton of alloy	Building	0.7	0.9999	0.99	No.3 Furnace alloy production	35,040			20272	10.1361	0.6999	67558.3	33.78
003--01	no. 3 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			1	0.0005	0.0000	1	0.00
003--01	no. 3 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0001	0.0000	0	0.00
003--01	no. 3 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	1	0.0004	0.0000	1	0.00
003--01	no. 3 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Building	0	0.99	0	No.3 Furnace coal type materials	38,016			0.998	0.0005	0.0000	1.0	0.00
003--01	no. 3 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Building	0	0.99	0	No.3 Furnace wood type materials	73,495			0.02	0.0000	0.0000	0.0	0.00
003--01	no. 3 Fce.	SOx	SO2	yes	28.27	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			10004	5.0022	0.0000	10004	5.00
003--01	no. 3 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000080	0.0000	0	0.00
003--01	no. 3 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	25	0.0123	0.0000	25	0.01
003--01	no. 3 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0001	0.0000	0	0.00
003--01	no. 3 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	12	0.0059	0.0000	12	0.01
003--01	no. 3 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No.3 furnace wood type materials	73,495	Stack test Ratio	1.67	0	0.0002	0.0000	0	0.00
003--01	no. 3 Fce.	TSP (Particulate)	PT	yes	3.68	lb/ton of alloy	Building	0.7	0.9999	0.99	No.3 Furnace alloy production	35,040			39029	19.5145	0.6999	130066.3	65.03
003--01	no. 3 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00
003--01	no. 3 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None		0.99		No.3 Furnace alloy production	35,040			517	0.2584	0.0000	517	0.26
003--01	no. 3 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No.3 Furnace coal type materials	38,016	Stack test Ratio	1.67	0	0.0000	0.0000	0	0.00

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003--03	no. 6 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	32	0.0162	0.0000	32	0.02
003--03	no. 6 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0001	0.0000	0	0.00
003--03	no. 6 Fce.	1,2-Dichloroethane (ethyldiene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	27	0.0136	0.0000	27	0.01
003--03	no. 6 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	31	0.0154	0.0000	31	0.02
003--03	no. 6 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0001	0.0000	0	0.00
003--03	no. 6 Fce.	2,4-Dinitrotoluene	121142	no	0.00E+00	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	2-Chloroaceteophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	40	0.0199	0.0000	40	0.02
003--03	no. 6 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0001	0.0000	0	0.00
003--03	no. 6 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	32	0.0162	0.0000	32	0.02
003--03	no. 6 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	776	0.3879	0.0000	776	0.39
003--03	no. 6 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	1	0.0004	0.0000	1	0.00
003--03	no. 6 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			277	0.1386	0.0000	277	0.14
003--03	no. 6 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360			1932	0.9660	0.0000	1932	0.97
003--03	no. 6 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99		No. 6 Furnace coal type materials	29,360			1	0.0003	0.8910	4.8	0.00
003--03	no. 6 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0002	0.8910	3.5	0.00
003--03	no. 6 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.6 Furnace alloy production	26,280			5	0.0024	0.8910	44.8	0.02
003--03	no. 6 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.8910	0.0	0.00
003--03	no. 6 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			348	0.1741	0.0000	348	0.17
003--03	no. 6 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	40	0.0199	0.0000	40	0.02
003--03	no. 6 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99		No. 6 Furnace coal type materials	29,360	Btu of Coal	14000.00	0.7	0.0003	0.9801	33.1	0.02
003--03	no. 6 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.9801	0.3	0.00
003--03	no. 6 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	7	0.0033	0.0000	7	0.00
003--03	no. 6 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	2	0.0011	0.0000	2	0.00
003--03	no. 6 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	9	0.0045	0.0000	9	0.00
003--03	no. 6 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	14	0.0070	0.0000	14	0.01
003--03	no. 6 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99		No. 6 Furnace coal type materials	29,360	Btu of Coal	14000.00	2.3	0.0011	0.8910	20.9	0.01
003--03	no. 6 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0001	0.8910	1.8	0.00
003--03	no. 6 Fce.	Carbon Dioxide	124389	no	5.68E+03	lb/ton of charcoal	None		0.99		No. 6 Furnace charcoal type materials	201	CO2 Stack Test Ratio	1.00	1141519	570.7596			
003--03	no. 6 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	CO2 Stack Test Ratio	1.00	173902216	86951.1080	0.0000	173902216	86,951.11
003--03	no. 6 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	CO2 Stack Test Ratio	1.00	159310780	79655.3901	0.0000	159310780	79,655.39
003--03	no. 6 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	7	0.0037	0.0000	7	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--03	no. 6 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	42	0.0210	0.0000	42	0.02
003--03	no. 6 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449			44	0.0222	0.0000	44	0.02
003--03	no. 6 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	1	0.0006	0.0000	1	0.00
003--03	no. 6 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	31	0.0154	0.0000	31	0.02
003--03	no. 6 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	3	0.0017	0.0000	3	0.00
003--03	no. 6 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	26	0.0131	0.0000	26	0.01
003--03	no. 6 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	14	0.0068	0.0000	14	0.01
003--03	no. 6 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	48	0.0238	0.0000	48	0.02
003--03	no. 6 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99		No.6 Furnace alloy production	26,280			4	0.0022	0.9801	221.9	0.11
003--03	no. 6 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.9801	0.0	0.00
003--03	no. 6 Fce.	CO	CO	yes	21.60	lb/ton of alloy	None				No.6 Furnace alloy production	26,280			567648	283.8240	0.0000	567648	283.82
003--03	no. 6 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99		No. 6 Furnace coal type materials	29,360			3	0.0015	0.9801	146.1	0.07
003--03	no. 6 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.9801	1.6	0.00
003--03	no. 6 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360			9	0.0043	0.0000	9	0.00
003--03	no. 6 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	3	0.0014	0.0000	3	0.00
003--03	no. 6 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	5	0.0027	0.0000	5	0.00
003--03	no. 6 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	29	0.0145	0.0000	29	0.01
003--03	no. 6 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	2	0.0012	0.0000	2	0.00
003--03	no. 6 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	2	0.0011	0.0000	2	0.00
003--03	no. 6 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			158	0.0792	0.0000	158	0.08
003--03	no. 6 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			68599	34.2993	0.0000	68599	34.30
003--03	no. 6 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	4	0.0019	0.0000	4	0.00
003--03	no. 6 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			3122	1.5610	0.0000	3122	1.56
003--03	no. 6 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	33	0.0165	0.0000	33	0.02
003--03	no. 6 Fce.	Lead	7439921	yes	0.0009	lb/ton of alloy	Baghouse	0.9	0.99	None	No.6 Furnace alloy production	26,280			24	0.0118	0.8910	217.0	0.11
003--03	no. 6 Fce.	Lead compounds	PBC	yes	0.0009	lb/ton of alloy	Baghouse	0.9	0.99	None	No.6 Furnace alloy production	26,280			24	0.0118	0.8910	217.0	0.11
003--03	no. 6 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99		No.6 Furnace alloy production	26,280			8	0.0038	0.9801	384.3	0.19
003--03	no. 6 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.9801	0.0	0.00
003--03	no. 6 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			0	0.0000	0.0000	0.0	0.00
003--03	no. 6 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449			0	0.0000	0.0000	0.0	0.00
003--03	no. 6 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			20506	10.2530	0.0000	20506	10.25
003--03	no. 6 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	1	0.0006	0.0000	1	0.00
003--03	no. 6 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	29	0.0145	0.0000	29	0.01
003--03	no. 6 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	3	0.0016	0.0000	3	0.00
003--03	no. 6 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	35	0.0175	0.0000	35	0.02
003--03	no. 6 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	1	0.0005	0.0000	1	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--03	no. 6 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	1	0.0006	0.0000	1	0.00
003--03	no. 6 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	2	0.0010	0.0000	2	0.00
003--03	no. 6 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			6	0.0028	0.0000	6	0.00
003--03	no. 6 Fce.	hthalene	91203	no	1.12E-06	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	hthalene	91203	no	0.00E+00	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99		No.6 Furnace alloy production	26,280			0	0.0002	0.8910	3.4	0.00
003--03	no. 6 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.8910	0.0	0.00
003--03	no. 6 Fce.	NOx	10024972	no	3.00E-02	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360			872	0.4360	0.0000	872	0.44
003--03	no. 6 Fce.	NOx	10024972	no	1.35E-01	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449			6217	3.1086	0.0000	6217	3.11
003--03	no. 6 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None				No.6 Furnace alloy production	26,280			699810	349.9051	0.0000	699810	349.91
003--03	no. 6 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0001	0.0000	0	0.00
003--03	no. 6 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	7	0.0033	0.0000	7	0.00
003--03	no. 6 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	1	0.0005	0.0000	1	0.00
003--03	no. 6 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	48	0.0238	0.0000	48	0.02
003--03	no. 6 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	None	No.6 Furnace alloy production	26,280			74.4	0.03719	0.8910	682.3	0.34
003--03	no. 6 Fce.	PM10	PM10	yes	4.17	lb/ton of alloy	Baghouse	0.99	0.99	None	No.6 Furnace alloy production	26,280			109456	54.7281	0.9801	5500311.6	2,750.16
003--03	no. 6 Fce.	PM2.5	PM2.5	yes	3.09	lb/ton of alloy	Baghouse	0.99	0.99	None	No.6 Furnace alloy production	26,280			81095	40.5474	0.9801	4075116.8	2,037.56
003--03	no. 6 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			1	0.0004	0.0000	1	0.00
003--03	no. 6 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			1	0.0004	0.0000	1	0.00
003--03	no. 6 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	22	0.0108	0.0000	22	0.01
003--03	no. 6 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	57	0.0285	0.0000	57	0.03
003--03	no. 6 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Baghouse	0	0.99		No. 6 Furnace coal type materials	29,360			76	0.0378	0.0000	75.6	0.04
003--03	no. 6 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Baghouse	0	0.99		No. 6 furnace wood type materials	46,449			1	0.0007	0.0000	1.3	0.00
003--03	no. 6 Fce.	SOx	SO2	yes	28.27	lb/ton of alloy	None				No.6 Furnace alloy production	26,280			742830	371.4152	0.0000	742830	371.42
003--03	no. 6 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	1	0.0007	0.0000	1	0.00
003--03	no. 6 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	1776	0.8879	0.0000	1776	0.89
003--03	no. 6 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	2	0.0012	0.0000	2	0.00
003--03	no. 6 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	14	0.0068	0.0000	14	0.01
003--03	no. 6 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	860	0.4299	0.0000	860	0.43
003--03	no. 6 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	28	0.0140	0.0000	28	0.01
003--03	no. 6 Fce.	TSP (Particulate)	PT	yes	5.95	lb/ton of alloy	Baghouse	0.99	0.99	None	No.6 Furnace alloy production	26,280			156366	78.1830	0.9801	7857587.9	3,928.79
003--03	no. 6 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None				No.6 Furnace alloy production	26,280			38369	19.1844	0.0000	38369	19.18
003--03	no. 6 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	2	0.0011	0.0000	2	0.00
003--03	no. 6 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	1,2-Dichloroethane (ethyldiene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0001	0.0000	0	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--03	no. 6 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	2,4-Dinitrotoluene	121142	no	0.00E+00	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	2-Chloroaceteophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	8	0.0039	0.0000	8	0.00
003--03	no. 6 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			3	0.0014	0.0000	3	0.00
003--03	no. 6 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360			20	0.0098	0.0000	20	0.01
003--03	no. 6 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99	0.7	No. 6 Furnace coal type materials	29,360			0.016	0.0000	0.6930	0.1	0.00
003--03	no. 6 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.6930	0.0	0.00
003--03	no. 6 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.6 Furnace alloy production	26,280			0	0.0001	0.8910	1.4	0.00
003--03	no. 6 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.8910	0.0	0.00
003--03	no. 6 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			4	0.0018	0.0000	4	0.00
003--03	no. 6 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99	0.7	No. 6 Furnace coal type materials	29,360	Btu of Coal	14000.00	0.202	0.0001	0.6930	0.7	0.00
003--03	no. 6 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.6930	0.0	0.00
003--03	no. 6 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0001	0.0000	0	0.00
003--03	no. 6 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99	0.7	No. 6 Furnace coal type materials	29,360	Btu of Coal	14000.00	0.070	0.0000	0.6930	0.2	0.00
003--03	no. 6 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.6930	0.0	0.00
003--03	no. 6 Fce.	Carbon Dioxide	124389	no	5.68E+03	lb/ton of charcoal	None		0.99		No. 6 Furnace charcoal type materials	201	CO2 Stack Test Ratio	1.00	11530	5.7652	0.0000		
003--03	no. 6 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	CO2 Stack Test Ratio	1.00	1756588	878.2940	0.0000	1756588	878.29
003--03	no. 6 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	CO2 Stack Test Ratio	1.00	1609200	804.5999	0.0000	1609200	804.60
003--03	no. 6 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449			0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00

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003--03	no. 6 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0001	0.0000	0	0.00
003--03	no. 6 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0001	0.0000	0	0.00
003--03	no. 6 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No.6 Furnace alloy production	26,280			1	0.0007	0.6930	4.4	0.00
003--03	no. 6 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.6930	0.0	0.00
003--03	no. 6 Fce.	CO	CO	yes	21.60	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			5734	2.8669	0.0000	5734	2.87
003--03	no. 6 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99	0.7	No. 6 Furnace coal type materials	29,360			0.890	0.0004	0.6930	2.9	0.00
003--03	no. 6 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.6930	0.0	0.00
003--03	no. 6 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360			0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0001	0.0000	0	0.00
003--03	no. 6 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99	0.7	No.6 Furnace alloy production	26,280			2	0.0008	0.0000	2	0.00
003--03	no. 6 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			693	0.3465	0.0000	693	0.35
003--03	no. 6 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			32	0.0158	0.0000	32	0.02
003--03	no. 6 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	Lead	7439921	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.6 Furnace alloy production	26,280			1	0.0004	0.6930	2.3	0.00
003--03	no. 6 Fce.	Lead compounds	PBC	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.6 Furnace alloy production	26,280			1	0.0004	0.8910	6.6	0.00
003--03	no. 6 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No.6 Furnace alloy production	26,280			2	0.0012	0.6930	7.5	0.00
003--03	no. 6 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.6930	0.0	0.00
003--03	no. 6 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None	0	0.99	0	No.6 Furnace alloy production	26,280			0	0.0000	0.0000	0.0	0.00
003--03	no. 6 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None	0	0.99	0	No. 6 furnace wood type materials	46,449			0	0.0000	0.0000	0.0	0.00
003--03	no. 6 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			207	0.1036	0.0000	207	0.10
003--03	no. 6 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0001	0.0000	0	0.00
003--03	no. 6 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			0	0.0000	0.0000	0	0.00



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003--03	no. 6 Fce.	hthalene	91203	no	1.12E-06	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	hthalene	91203	no	0.00E+00	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.6 Furnace alloy production	26,280			0	0.0000	0.8910	0.1	0.00
003--03	no. 6 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No. 6 furnace wood type materials	46,449			0	0.0000	0.8910	0.0	0.00
003--03	no. 6 Fce.	NOx	10024972	no	3.00E-02	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360			9	0.0044	0.0000	9	0.00
003--03	no. 6 Fce.	NOx	10024972	no	1.35E-01	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449			63	0.0314	0.0000	63	0.03
003--03	no. 6 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			7069	3.5344	0.0000	7069	3.53
003--03	no. 6 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0002	0.0000	0	0.00
003--03	no. 6 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.6 Furnace alloy production	26,280			2.3	0.00113	0.6930	7.3	0.00
003--03	no. 6 Fce.	PM10	PM10	yes	4.17	lb/ton of alloy	Building	0.7	0.9999	0.99	No.6 Furnace alloy production	26,280			33169	16.5843	0.6999	110536.0	55.27
003--03	no. 6 Fce.	PM2.5	PM2.5	yes	3.09	lb/ton of alloy	Building	0.7	0.9999	0.99	No.6 Furnace alloy production	26,280			24574	12.2871	0.6999	81894.9	40.95
003--03	no. 6 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			1	0.0004	0.0000	1	0.00
003--03	no. 6 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0001	0.0000	0	0.00
003--03	no. 6 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	1	0.0003	0.0000	1	0.00
003--03	no. 6 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Building	0	0.99	0	No. 6 Furnace coal type materials	29,360			0.771	0.0004	0.0000	0.8	0.00
003--03	no. 6 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Building	0	0.99	0	No. 6 furnace wood type materials	46,449			0.01	0.0000	0.0000	0.0	0.00
003--03	no. 6 Fce.	SOx	SO2	yes	28.27	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			7503	3.7517	0.0000	7503	3.75
003--03	no. 6 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	18	0.0090	0.0000	18	0.01
003--03	no. 6 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0001	0.0000	0	0.00
003--03	no. 6 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	9	0.0043	0.0000	9	0.00
003--03	no. 6 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No. 6 furnace wood type materials	46,449	Stack test Ratio	1.95	0	0.0001	0.0000	0	0.00
003--03	no. 6 Fce.	TSP (Particulate)	PT	yes	5.95	lb/ton of alloy	Building	0.7	0.9999	0.99	No.6 Furnace alloy production	26,280			47384	23.6918	0.6999	157908.6	78.95
003--03	no. 6 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--03	no. 6 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None		0.99		No.6 Furnace alloy production	26,280			388	0.1938	0.0000	388	0.19
003--03	no. 6 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No. 6 Furnace coal type materials	29,360	Stack test Ratio	1.95	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	29	0.0143	0.0000	29	0.01
003--04	no. 7 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	1,2-Dichloroethane (ethylidene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	27	0.0137	0.0000	27	0.01
003--04	no. 7 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	31	0.0156	0.0000	31	0.02
003--04	no. 7 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--04	no. 7 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	2,4-Dinitrotoluene	121142	no	0.00E+00	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	2-Chloroaceteophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	35	0.0175	0.0000	35	0.02
003--04	no. 7 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	28	0.0142	0.0000	28	0.01
003--04	no. 7 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	785	0.3925	0.0000	785	0.39
003--04	no. 7 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	1	0.0004	0.0000	1	0.00
003--04	no. 7 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			277	0.1386	0.0000	277	0.14
003--04	no. 7 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019			1712	0.8561	0.0000	1712	0.86
003--04	no. 7 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99		No.7 Furnace coal type materials	26019			0	0.0002	0.8910	4.3	0.00
003--04	no. 7 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.7 furnace wood type materials	47326			0	0.0002	0.8910	3.5	0.00
003--04	no. 7 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.7 Furnace alloy production	26280			5	0.0024	0.8910	44.8	0.02
003--04	no. 7 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.7 furnace wood type materials	47326			0	0.0000	0.8910	0.0	0.00
003--04	no. 7 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			348	0.1741	0.0000	348	0.17
003--04	no. 7 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	35	0.0175	0.0000	35	0.02
003--04	no. 7 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99		No.7 Furnace coal type materials	26019	Btu of Coal	14000.00	0.6	0.0003	0.9801	29.4	0.01
003--04	no. 7 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.7 furnace wood type materials	47326			0	0.0000	0.9801	0.3	0.00
003--04	no. 7 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	7	0.0033	0.0000	7	0.00
003--04	no. 7 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	2	0.0010	0.0000	2	0.00
003--04	no. 7 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	8	0.0040	0.0000	8	0.00
003--04	no. 7 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	14	0.0071	0.0000	14	0.01
003--04	no. 7 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99		No.7 Furnace coal type materials	26019	Btu of Coal	14000.00	2.02	0.0010	0.8910	18.5	0.01
003--04	no. 7 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99		No.7 furnace wood type materials	47326			0.20	0.0001	0.8910	1.8	0.00
003--04	no. 7 Fce.	Carbon Dioxide	124389	no	5.68E+03	lb/ton of charcoal	None		0.99		No.7 Furnace charcoal type materials	105	CO2 Stack Test Ratio	1.00	597839	298.9196	0.0000		
003--04	no. 7 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	CO2 Stack Test Ratio	1.00	154113139	77056.5695	0.0000	154113139	77,056.57
003--04	no. 7 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	CO2 Stack Test Ratio	1.00	162318715	81159.3574	0.0000	162318715	81,159.36
003--04	no. 7 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	6	0.0032	0.0000	6	0.00
003--04	no. 7 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	43	0.0213	0.0000	43	0.02
003--04	no. 7 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326			45	0.0226	0.0000	45	0.02
003--04	no. 7 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	1	0.0005	0.0000	1	0.00
003--04	no. 7 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	31	0.0156	0.0000	31	0.02
003--04	no. 7 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	3	0.0015	0.0000	3	0.00
003--04	no. 7 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	26	0.0132	0.0000	26	0.01

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--04	no. 7 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	12	0.0060	0.0000	12	0.01
003--04	no. 7 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	48	0.0241	0.0000	48	0.02
003--04	no. 7 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99		No.7 Furnace alloy production	26280			4	0.0022	0.9801	221.9	0.11
003--04	no. 7 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.7 furnace wood type materials	47326			0	0.0000	0.9801	0.0	0.00
003--04	no. 7 Fce.	CO	CO	yes	21.60	lb/ton of alloy	None				No.7 Furnace alloy production	26280			567648	283.8240	0.0000	567648	283.82
003--04	no. 7 Fce.	CO Duplicate	CO	yes	0.00	lb/ton of alloy	None				No.7 Furnace alloy production	26280			0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99		No.7 Furnace coal type materials	26019			3	0.0013	0.9801	129.4	0.06
003--04	no. 7 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.7 furnace wood type materials	47326			0	0.0000	0.9801	1.6	0.00
003--04	no. 7 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019			8	0.0038	0.0000	8	0.00
003--04	no. 7 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	2	0.0012	0.0000	2	0.00
003--04	no. 7 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	5	0.0023	0.0000	5	0.00
003--04	no. 7 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	29	0.0147	0.0000	29	0.01
003--04	no. 7 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	2	0.0010	0.0000	2	0.00
003--04	no. 7 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	2	0.0010	0.0000	2	0.00
003--04	no. 7 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			158	0.0792	0.0000	158	0.08
003--04	no. 7 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			68599	34.2993	0.0000	68599	34.30
003--04	no. 7 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	3	0.0017	0.0000	3	0.00
003--04	no. 7 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			3122	1.5610	0.0000	3122	1.56
003--04	no. 7 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	29	0.0145	0.0000	29	0.01
003--04	no. 7 Fce.	Lead	7439921	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99		No.7 Furnace alloy production	26280			24	0.0118	0.8910	217.0	0.11
003--04	no. 7 Fce.	Lead compounds	PBC	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99		No.7 Furnace alloy production	26280			24	0.0118	0.8910	217.0	0.11
003--04	no. 7 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99		No.7 Furnace alloy production	26280			8	0.0038	0.9801	384.3	0.19
003--04	no. 7 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.7 furnace wood type materials	47326			0	0.0000	0.9801	0.0	0.00
003--04	no. 7 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			0	0.0000	0.0000	0.0	0.00
003--04	no. 7 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326			0	0.0000	0.0000	0.0	0.00
003--04	no. 7 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			20506	10.2530	0.0000	20506	10.25
003--04	no. 7 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	1	0.0005	0.0000	1	0.00
003--04	no. 7 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	29	0.0147	0.0000	29	0.01
003--04	no. 7 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	3	0.0014	0.0000	3	0.00
003--04	no. 7 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	35	0.0177	0.0000	35	0.02
003--04	no. 7 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	1	0.0004	0.0000	1	0.00
003--04	no. 7 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	1	0.0005	0.0000	1	0.00
003--04	no. 7 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	2	0.0009	0.0000	2	0.00
003--04	no. 7 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			6	0.0028	0.0000	6	0.00
003--04	no. 7 Fce.	Naphthalene	91203	no	1.12E-06	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Naphthalene	91203	no	0.00E+00	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--04	no. 7 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99		No.7 Furnace alloy production	26280			0	0.0002	0.8910	3.4	0.00
003--04	no. 7 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.7 furnace wood type materials	47326			0	0.0000	0.8910	0.0	0.00
003--04	no. 7 Fce.	NOx	NO2	no	3.00E-02	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019			773	0.3864	0.0000	773	0.39
003--04	no. 7 Fce.	NOx	NO2	no	1.35E-01	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326			6334	3.1672	0.0000	6334	3.17
003--04	no. 7 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None				No. 7 Furnace alloy production	26280			699810	349.9051	0.0000	699810	349.91
003--04	no. 7 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	7	0.0033	0.0000	7	0.00
003--04	no. 7 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	1	0.0004	0.0000	1	0.00
003--04	no. 7 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	48	0.0241	0.0000	48	0.02
003--04	no. 7 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	None	No. 7 Furnace alloy production	26280			74.4	0.03719	0.8910	682.3	0.34
003--04	no. 7 Fce.	PM10	PM10	yes	4.17	lb/ton of alloy	Baghouse	0.99	0.99	None	No.7 Furnace alloy production	26280			109456	54.7281	0.9801	5500311.6	2,750.16
003--04	no. 7 Fce.	PM2.5	PM2.5	yes	3.09	lb/ton of alloy	Baghouse	0.99	0.99	None	No.7 Furnace alloy production	26280			81095	40.5474	0.9801	4075116.8	2,037.56
003--04	no. 7 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No. 7 Furnace alloy production	26280			1	0.0004	0.0000	1	0.00
003--04	no. 7 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			1	0.0004	0.0000	1	0.00
003--04	no. 7 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	19	0.0095	0.0000	19	0.01
003--04	no. 7 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	58	0.0288	0.0000	58	0.03
003--04	no. 7 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Baghouse	0	0.99		No.7 Furnace coal type materials	26019			67	0.0335	0.0000	67.0	0.03
003--04	no. 7 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Baghouse	0	0.99		No.7 furnace wood type materials	47326			1	0.0007	0.0000	1.4	0.00
003--04	no. 7 Fce.	SOx	SO2	yes	28.27	lb/ton of alloy	None				No.7 Furnace alloy production	26280			742830	371.4152	0.0000	742830	371.42
003--04	no. 7 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	1	0.0006	0.0000	1	0.00
003--04	no. 7 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	1797	0.8985	0.0000	1797	0.90
003--04	no. 7 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	2	0.0011	0.0000	2	0.00
003--04	no. 7 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	12	0.0060	0.0000	12	0.01
003--04	no. 7 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	870	0.4351	0.0000	870	0.44
003--04	no. 7 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	28	0.0142	0.0000	28	0.01
003--04	no. 7 Fce.	TSP (Particulate)	PT	yes	5.95	lb/ton of alloy	Baghouse	0.99	0.99	None	No.7 Furnace alloy production	26280			156366	78.1830	0.9801	7857587.9	3,928.79
003--04	no. 7 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0002	0.0000	0	0.00
003--04	no. 7 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None				No. 7 Furnace alloy production	26280			38369	19.1844	0.0000	38369	19.18
003--04	no. 7 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	2	0.0009	0.0000	2	0.00
003--04	no. 7 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	1,2-Dichloroethane (ethyldiene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0002	0.0000	0	0.00
003--04	no. 7 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	2,4-Dinitrotoluene	121142	no	0.00E+00	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00

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003--04	no. 7 Fce.	2-Chloroaceteophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0002	0.0000	0	0.00
003--04	no. 7 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	8	0.0040	0.0000	8	0.00
003--04	no. 7 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			3	0.0014	0.0000	3	0.00
003--04	no. 7 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019			17	0.0086	0.0000	17	0.01
003--04	no. 7 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99	0.7	No.7 Furnace coal type materials	26019			0.014	0.000007096	0.6930	0.0	0.00
003--04	no. 7 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.7 furnace wood type materials	47326			0	0.000005891	0.6930	0.0	0.00
003--04	no. 7 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.7 Furnace alloy production	26280			0	0.0001	0.8910	1.4	0.00
003--04	no. 7 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.7 furnace wood type materials	47326			0	0.0000	0.8910	0.0	0.00
003--04	no. 7 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			4	0.0018	0.0000	4	0.00
003--04	no. 7 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0002	0.0000	0	0.00
003--04	no. 7 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99	0.7	No.7 Furnace coal type materials	26019	Btu of Coal	14000.00	0.179	0.0001	0.6930	0.6	0.00
003--04	no. 7 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.7 furnace wood type materials	47326			0	0.0000	0.6930	0.0	0.00
003--04	no. 7 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99	0.7	No.7 Furnace coal type materials	26019	Btu of Coal	14000.00	0.062	0.0000	0.6930	0.2	0.00
003--04	no. 7 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.7 furnace wood type materials	47326			0.01	0.0000	0.6930	0.0	0.00
003--04	no. 7 Fce.	Carbon Dioxide	124389	no	5.68E+03	lb/ton of charcoal	None		0.99		No.7 Furnace charcoal type materials	105	CO2 Stack Test Ratio	1.00	6039	3.0194	0.0000		
003--04	no. 7 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	CO2 Stack Test Ratio	1.00	1556698	778.3492	0.0000	1556698	778.35
003--04	no. 7 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	CO2 Stack Test Ratio	1.00	1639583	819.7915	0.0000	1639583	819.79
003--04	no. 7 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0002	0.0000	0	0.00
003--04	no. 7 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326			0	0.0002	0.0000	0	0.00
003--04	no. 7 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0002	0.0000	0	0.00
003--04	no. 7 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0002	0.0000	0	0.00

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003--04	no. 7 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No.7 Furnace alloy production	26280			1	0.0007	0.6930	4.4	0.00
003--04	no. 7 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.7 furnace wood type materials	47326			0	0.0000	0.6930	0.0	0.00
003--04	no. 7 Fce.	CO	CO	yes	21.60	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			5734	2.8669	0.0000	5734	2.87
003--04	no. 7 Fce.	CO Duplicate	CO	yes	0.00	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99	0.7	No.7 Furnace coal type materials	26019			0.788	0.0004	0.6930	2.6	0.00
003--04	no. 7 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.7 furnace wood type materials	47326			0	0.0000	0.6930	0.0	0.00
003--04	no. 7 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019			0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No. 7 Furnace alloy production	26280			0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99	0.7	No.7 Furnace alloy production	26280			2	0.0008	0.0000	2	0.00
003--04	no. 7 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No. 7 Furnace alloy production	26280			693	0.3465	0.0000	693	0.35
003--04	no. 7 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			32	0.0158	0.0000	32	0.02
003--04	no. 7 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	Lead	7439921	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.7 Furnace alloy production	26280			1	0.0003584	0.8910	6.6	0.00
003--04	no. 7 Fce.	Lead compounds	PBC	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 7 Furnace alloy production	26280			1	0.0003584	0.8910	6.6	0.00
003--04	no. 7 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No.7 Furnace alloy production	26280			2	0.0011587	0.6930	7.5	0.00
003--04	no. 7 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.7 furnace wood type materials	47326			0	0.0000	0.6930	0.0	0.00
003--04	no. 7 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None	0	0.99	0	No.7 Furnace alloy production	26280			0	0.0000	0.0000	0.0	0.00
003--04	no. 7 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None	0	0.99	0	No.7 furnace wood type materials	47326			0	0.0000	0.0000	0.0	0.00
003--04	no. 7 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No. 7 Furnace alloy production	26280			207	0.1036	0.0000	207	0.10
003--04	no. 7 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0002	0.0000	0	0.00
003--04	no. 7 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No. 7 Furnace alloy production	26280			0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Naphthalene	91203	no	1.12E-06	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Naphthalene	91203	no	0.00E+00	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.7 Furnace alloy production	26280			0	0.00000557	0.8910	0.1	0.00
003--04	no. 7 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.7 furnace wood type materials	47326			0	0.00000000	0.8910	0.0	0.00

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003--04	no. 7 Fce.	NOx	NO2	no	3.00E-02	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019			8	0.0039	0.0000	8	0.00
003--04	no. 7 Fce.	NOx	NO2	no	1.35E-01	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326			64	0.0320	0.0000	64	0.03
003--04	no. 7 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			7069	3.5344	0.0000	7069	3.53
003--04	no. 7 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0002	0.0000	0	0.00
003--04	no. 7 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.7 Furnace alloy production	26280			2.3	0.00113	0.6930	7.3	0.00
003--04	no. 7 Fce.	PM10	PM10	yes	4.17	lb/ton of alloy	Building	0.7	0.9999	0.99	No.7 Furnace alloy production	26280			33169	16.5843	0.6999	110536.0	55.27
003--04	no. 7 Fce.	PM2.5	PM2.5	yes	3.09	lb/ton of alloy	Building	0.7	0.9999	0.99	No.7 Furnace alloy production	26280			24574	12.2871	0.6999	81894.9	40.95
003--04	no. 7 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			1	0.0004	0.0000	1	0.00
003--04	no. 7 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	1	0.0003	0.0000	1	0.00
003--04	no. 7 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Building	0	0.99	0	No.7 Furnace coal type materials	26019			0.683	0.00034166	0.0000	0.7	0.00
003--04	no. 7 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Building	0	0.99	0	No.7 furnace wood type materials	47326			0.01	0.00000696	0.0000	0.0	0.00
003--04	no. 7 Fce.	SOx	SO2	yes	28.27	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			7503	3.7517	0.0000	7503	3.75
003--04	no. 7 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	18	0.0091	0.0000	18	0.01
003--04	no. 7 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	9	0.0044	0.0000	9	0.00
003--04	no. 7 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No.7 furnace wood type materials	47326	Stack test Ratio	1.94	0	0.0001	0.0000	0	0.00
003--04	no. 7 Fce.	TSP (Particulate)	PT	yes	5.95	lb/ton of alloy	Building	0.7	0.9999	0.99	No.7 Furnace alloy production	26280			47384	23.6918	0.6999	157908.6	78.95
003--04	no. 7 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--04	no. 7 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None		0.99		No.7 Furnace alloy production	26280			388	0.1938	0.0000	388	0.19
003--04	no. 7 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No.7 Furnace coal type materials	26019	Stack test Ratio	1.94	0	0.0000	0.0000	0	0.00
003--05	no. 9 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	22	0.0112	0.0000	22	0.011201
003--05	no. 9 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000045
003--05	no. 9 Fce.	1,2-Dichloroethane (ethylidene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	23	0.0114	0.0000	23	0.011418
003--05	no. 9 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	26	0.0130	0.0000	26	0.012993
003--05	no. 9 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000009
003--05	no. 9 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000071
003--05	no. 9 Fce.	2,4-Dinitrotoluene	121142	no	0.00E+00	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	2-Chloroacetophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	27	0.0137	0.0000	27	0.013708
003--05	no. 9 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000043

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003--05	no. 9 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	22	0.0112	0.0000	22	0.011162
003--05	no. 9 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	654	0.3268	0.0000	654	0.326787
003--05	no. 9 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	1	0.0003	0.0000	1	0.000294
003--05	no. 9 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000001
003--05	no. 9 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			347	0.1733	0.0000	347	0.173284
003--05	no. 9 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640			2345	1.1727	0.0000	2345	1.172661
003--05	no. 9 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000017
003--05	no. 9 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99		No.9 Furnace coal type materials	35640			1	0.0003	0.8910	5.8	0.002913
003--05	no. 9 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.9 furnace wood type materials	68901			1	0.0003	0.8910	5.1	0.002571
003--05	no. 9 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.9 Furnace alloy production	32850			6	0.0031	0.8910	56.1	0.028028
003--05	no. 9 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.8910	0.0	0.000000
003--05	no. 9 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			435	0.2176	0.0000	435	0.217631
003--05	no. 9 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000001
003--05	no. 9 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000037
003--05	no. 9 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	27	0.0137	0.0000	27	0.013708
003--05	no. 9 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99		No.9 Furnace coal type materials	35640	Btu of Coal	14000.00	0.8	0.0004	0.9801	40.2	0.020106
003--05	no. 9 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.9801	0.4	0.000196
003--05	no. 9 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000033
003--05	no. 9 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000010
003--05	no. 9 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	6	0.0028	0.0000	6	0.002764
003--05	no. 9 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	2	0.0008	0.0000	2	0.000764
003--05	no. 9 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	6	0.0031	0.0000	6	0.003133
003--05	no. 9 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	12	0.0059	0.0000	12	0.005906
003--05	no. 9 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99		No.9 Furnace coal type materials	35640	Btu of Coal	14000.00	2.8	0.0014	0.8910	25.4	0.012689
003--05	no. 9 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0001	0.8910	2.7	0.001334
003--05	no. 9 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	CO2 Stack Test Ratio	1.00	211099284	105549.6420	0.0000	211099284	105549.642000
003--05	no. 9 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	CO2 Stack Test Ratio	1.00	236316650	118158.3249	0.0000	236316650	118158.324900
003--05	no. 9 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	5	0.0025	0.0000	5	0.002546
003--05	no. 9 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	35	0.0177	0.0000	35	0.017717
003--05	no. 9 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901			66	0.0330	0.0000	66	0.032966
003--05	no. 9 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	1	0.0004	0.0000	1	0.000431
003--05	no. 9 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	26	0.0130	0.0000	26	0.012993
003--05	no. 9 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	2	0.0012	0.0000	2	0.001155
003--05	no. 9 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	22	0.0110	0.0000	22	0.011024
003--05	no. 9 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	9	0.0047	0.0000	9	0.004684
003--05	no. 9 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	40	0.0201	0.0000	40	0.020065
003--05	no. 9 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99		No.9 Furnace alloy production	32850			6	0.0028	0.9801	277.3	0.138663
003--05	no. 9 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.9801	0.0	0.000000
003--05	no. 9 Fce.	CO	CO	yes	21.60	lb/ton of alloy	None				No.9 Furnace alloy production	32850			709560	354.7800	0.0000	709560	354.780000



Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--05	no. 9 Fce.	CO Duplicate	CO	yes	0.00	lb/ton of alloy	None				No.9 Furnace alloy production	32850			0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99		No.9 Furnace coal type materials	35640			4	0.0018	0.9801	177.3	0.088652
003--05	no. 9 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.9801	2.3	0.001159
003--05	no. 9 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000104
003--05	no. 9 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640			10	0.0052	0.0000	10	0.005189
003--05	no. 9 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	2	0.0009	0.0000	2	0.000940
003--05	no. 9 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No. 9 Furance alloy production	32850			0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	4	0.0018	0.0000	4	0.001841
003--05	no. 9 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	24	0.0122	0.0000	24	0.012205
003--05	no. 9 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	2	0.0008	0.0000	2	0.000822
003--05	no. 9 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	2	0.0008	0.0000	2	0.000783
003--05	no. 9 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			198	0.0990	0.0000	198	0.099028
003--05	no. 9 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			85748	42.8742	0.0000	85748	42.874178
003--05	no. 9 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	3	0.0013	0.0000	3	0.001312
003--05	no. 9 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			3903	1.9513	0.0000	3903	1.951290
003--05	no. 9 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	23	0.0114	0.0000	23	0.011358
003--05	no. 9 Fce.	Lead	7439921	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99		No.9 Furnace alloy production	32850			30	0.0148	0.8910	271.2	0.135619
003--05	no. 9 Fce.	Lead compounds	PBC	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99		No.9 Furnace alloy production	32850			30	0.0148	0.8910	271.2	0.135619
003--05	no. 9 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99		No.9 Furnace alloy production	32850			10	0.0048	0.9801	480.4	0.240185
003--05	no. 9 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.9801	0.0	0.000000
003--05	no. 9 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			0	0.0000	0.0000	0.0	0.000006
003--05	no. 9 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901			0	0.0000	0.0000	0.0	0.000000
003--05	no. 9 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			25632	12.8162	0.0000	25632	12.816220
003--05	no. 9 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	1	0.0004	0.0000	1	0.000392
003--05	no. 9 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	24	0.0122	0.0000	24	0.012205
003--05	no. 9 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	2	0.0011	0.0000	2	0.001100
003--05	no. 9 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	30	0.0148	0.0000	30	0.014764
003--05	no. 9 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	1	0.0003	0.0000	1	0.000333
003--05	no. 9 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	1	0.0004	0.0000	1	0.000392
003--05	no. 9 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	1	0.0007	0.0000	1	0.000685
003--05	no. 9 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			7	0.0035	0.0000	7	0.003466
003--05	no. 9 Fce.	hthalene	#N/A	no	1.12E-06	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000022
003--05	no. 9 Fce.	hthalene	#N/A	no	0.00E+00	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99		No.9 Furnace alloy production	32850			0	0.0002	0.8910	4.2	0.002110
003--05	no. 9 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.8910	0.0	0.000000
003--05	no. 9 Fce.	NOx	NO2	no	3.00E-02	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640			1059	0.5293	0.0000	1059	0.529254
003--05	no. 9 Fce.	NOx	NO2	no	1.35E-01	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901			9222	4.6111	0.0000	9222	4.611131
003--05	no. 9 Fce.	NOx	NO2	yes	13.91	lb/ton of alloy	None				No.9 Furnace production	32850			456944	228.4718	0.0000	456944	228.471750

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--05	no. 9 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None				No.9 Furnace production - Si	32850			874763	437.3813	0.0000	874763	437.381325
003--05	no. 9 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000020
003--05	no. 9 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000053
003--05	no. 9 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	6	0.0028	0.0000	6	0.002756
003--05	no. 9 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	1	0.0003	0.0000	1	0.000313
003--05	no. 9 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	40	0.0201	0.0000	40	0.020080
003--05	no. 9 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	None	No. 9 Furnace alloy production	32850			93.0	0.04648	0.8910	852.9	0.426447
003--05	no. 9 Fce.	PM10	PM10	yes	4.40	lb/ton of alloy	Baghouse	0.99	0.99	None	No.9 Furnace FeSi production	32850			1432	0.7158	0.9801	71937.6	35.968779
003--05	no. 9 Fce.	PM10	PM10	yes	4.17	lb/ton of alloy	Baghouse	0.99	0.99	None	No.9 Furnace production (Si)	32850			136820	68.4101	0.9801	6875389.4	3437.694724
003--05	no. 9 Fce.	PM2.5	PM2.5	yes	3.30	lb/ton of alloy	Baghouse	0.99	0.99	None	No.9 Furnace FeSi production	32850			1073	0.5366	0.9801	53930.1	26.965063
003--05	no. 9 Fce.	PM2.5	PM2.5	yes	3.09	lb/ton of alloy	Baghouse	0.99	0.99	None	No.9 Furnace production (Si)	32850			101369	50.6843	0.9801	5093896.0	2546.947990
003--05	no. 9 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No. 9 Furance alloy production	32850			1	0.0005	0.0000	1	0.000494
003--05	no. 9 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No. 9 Furance alloy production	32850			1	0.0005	0.0000	1	0.000494
003--05	no. 9 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	15	0.0074	0.0000	15	0.007441
003--05	no. 9 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	48	0.0240	0.0000	48	0.024017
003--05	no. 9 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Baghouse	0	0.99		No.9 Furnace coal type materials	35640			92	0.0459	0.0000	91.7	0.045869
003--05	no. 9 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Baghouse	0	0.99		No.9 furnace wood type materials	68901			2	0.0010	0.0000	2.0	0.000993
003--05	no. 9 Fce.	SOx	SO2	yes	40.00	lb/ton of alloy	None				No.9 Furnace production (FeSi)	32850			1314000	657.0000	0.0000	1314000	657.000000
003--05	no. 9 Fce.	SOx	SO2	yes	28.27	lb/ton of alloy	None				No.9 Furnace production (Si)	32850			928538	464.2691	0.0000	928538	464.269050
003--05	no. 9 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	1	0.0005	0.0000	1	0.000490
003--05	no. 9 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	1496	0.7481	0.0000	1496	0.748067
003--05	no. 9 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	2	0.0008	0.0000	2	0.000842
003--05	no. 9 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	9	0.0047	0.0000	9	0.004700
003--05	no. 9 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	724	0.3622	0.0000	724	0.362222
003--05	no. 9 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	24	0.0118	0.0000	24	0.011812
003--05	no. 9 Fce.	TSP (Particulate)	PT	yes	3.68	lb/ton of alloy	Baghouse	0.99	0.99	None	No.9 Furnace FeSi production	32850			1195	0.5977	0.9801	60069.6	30.034796
003--05	no. 9 Fce.	TSP (Particulate)	PT	yes	3.68	lb/ton of alloy	Baghouse	0.99	0.99	None	No.9 Furnace production (Si)	32850			120746	60.3730	0.9801	6067635.5	3033.817737
003--05	no. 9 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000149
003--05	no. 9 Fce.	VOC	VOC	yes	0.86	lb/ton of alloy	None				No.9 Furnace production - FeSi	32850			28333	14.1666	0.0000	28333	14.166563
003--05	no. 9 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None				No.9 Furnace production (Si)	32850			47961	23.9805	0.0000	47961	23.980500
003--05	no. 9 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	1	0.0007	0.0000	1	0.000725
003--05	no. 9 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000113
003--05	no. 9 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	1,2-Dichloroethane (ethylidene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000115
003--05	no. 9 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000131
003--05	no. 9 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000001

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--05	no. 9 Fce.	2,4-Dinitrotoluene	121142	no	0.00E+00	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	2-Chloroaceteophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000138
003--05	no. 9 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000113
003--05	no. 9 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	7	0.0033	0.0000	7	0.003301
003--05	no. 9 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000003
003--05	no. 9 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			4	0.0018	0.0000	4	0.001750
003--05	no. 9 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640			24	0.0118	0.0000	24	0.011845
003--05	no. 9 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99	0.7	No.9 Furnace coal type materials	35640			0.019	0.0000	0.6930	0.1	0.000032
003--05	no. 9 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.6930	0.1	0.000028
003--05	no. 9 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.9 Furnace alloy production	32850			0	0.0001	0.8910	1.7	0.000849
003--05	no. 9 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.8910	0.0	0.000000
003--05	no. 9 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			4	0.0022	0.0000	4	0.002198
003--05	no. 9 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000138
003--05	no. 9 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99	0.7	No.9 Furnace coal type materials	35640		0.00	0.000	0.0000	0.6930	0.0	0.000000
003--05	no. 9 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.6930	0.0	0.000004
003--05	no. 9 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000028
003--05	no. 9 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000008
003--05	no. 9 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000032
003--05	no. 9 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000060
003--05	no. 9 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99	0.7	No.9 Furnace coal type materials	35640		0.00	0.000	0.0000	0.6930	0.0	0.000000
003--05	no. 9 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.6930	0.0	0.000014
003--05	no. 9 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	CO2 Stack Test Ratio	1.00	2132316	1066.1580	0.0000	2132316	1066.158000
003--05	no. 9 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	CO2 Stack Test Ratio	1.00	2387037	1193.5184	0.0000	2387037	1193.518433
003--05	no. 9 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000026
003--05	no. 9 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0002	0.0000	0	0.000179
003--05	no. 9 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901			1	0.0003	0.0000	1	0.000333
003--05	no. 9 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000004
003--05	no. 9 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000131
003--05	no. 9 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000012
003--05	no. 9 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000111
003--05	no. 9 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000047
003--05	no. 9 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0002	0.0000	0	0.000203

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003--05	no. 9 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No.9 Furnace alloy production	32850			2	0.0008	0.6930	5.4	0.002724
003--05	no. 9 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.6930	0.0	0.000000
003--05	no. 9 Fce.	CO	CO	yes	21.60	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			7167	3.5836	0.0000	7167	3.583636
003--05	no. 9 Fce.	CO Duplicate	CO	yes	0.00	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99	0.7	No.9 Furnace coal type materials	35640			1.080	0.0005	0.6930	3.5	0.001759
003--05	no. 9 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.6930	0.0	0.000023
003--05	no. 9 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000001
003--05	no. 9 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640			0	0.0001	0.0000	0	0.000053
003--05	no. 9 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000009
003--05	no. 9 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No. 9 Furance alloy production	32850			0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000019
003--05	no. 9 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000123
003--05	no. 9 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000008
003--05	no. 9 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000008
003--05	no. 9 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99	0.7	No.9 Furnace alloy production	32850			2	0.0010	0.0000	2	0.001010
003--05	no. 9 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			866	0.4331	0.0000	866	0.433073
003--05	no. 9 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000013
003--05	no. 9 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			39	0.0197	0.0000	39	0.019710
003--05	no. 9 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000115
003--05	no. 9 Fce.	Lead	7439921	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.9 Furnace alloy production	32850			1	0.0004	0.8910	8.2	0.004110
003--05	no. 9 Fce.	Lead compounds	PBC	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.9 Furnace alloy production	32850			1	0.0004	0.8910	8.2	0.004110
003--05	no. 9 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No.9 Furnace alloy production	32850			3	0.0014	0.6930	9.4	0.004718
003--05	no. 9 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.6930	0.0	0.000000
003--05	no. 9 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None	0	0.99	0	No.9 Furnace alloy production	32850			0	0.0000	0.0000	0.0	0.000000
003--05	no. 9 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None	0	0.99	0	No.9 furnace wood type materials	68901			0	0.0000	0.0000	0.0	0.000000
003--05	no. 9 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			259	0.1295	0.0000	259	0.129457
003--05	no. 9 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000004
003--05	no. 9 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000123
003--05	no. 9 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000011
003--05	no. 9 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000149
003--05	no. 9 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000003
003--05	no. 9 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000004
003--05	no. 9 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000007
003--05	no. 9 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No.9 Furnace alloy production	32850			0	0.0000	0.0000	0	0.000035
003--05	no. 9 Fce.	hthalene	#N/A	no	1.12E-06	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	hthalene	#N/A	no	0.00E+00	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.9 Furnace alloy production	32850			0	0.0000	0.8910	0.1	0.000064
003--05	no. 9 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.9 furnace wood type materials	68901			0	0.0000	0.8910	0.0	0.000000

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--05	no. 9 Fce.	NOx	NO2	no	3.00E-02	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640			11	0.0053	0.0000	11	0.005346
003--05	no. 9 Fce.	NOx	NO2	no	1.35E-01	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901			93	0.0466	0.0000	93	0.046577
003--05	no. 9 Fce.	NOx	NO2	yes	13.91	lb/ton of alloy	None		0.99		No.9 Furnace production	32850			4616	2.3078	0.0000	4616	2.307795
003--05	no. 9 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None		0.99		No.9 Furnace production - Si	32850			8836	4.4180	0.0000	8836	4.417993
003--05	no. 9 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000001
003--05	no. 9 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000028
003--05	no. 9 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000003
003--05	no. 9 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0002	0.0000	0	0.000203
003--05	no. 9 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 9 Furnace alloy production	32850			2.8	0.00141	0.6930	9.2	0.004588
003--05	no. 9 Fce.	PM10	PM10	yes	4.40	lb/ton of alloy	Building	0.7	0.9999	0.99	No.9 Furnace FeSi production	32850			434	0.2169	0.6999	1445.7	0.722840
003--05	no. 9 Fce.	PM10	PM10	yes	4.17	lb/ton of alloy	Building	0.7	0.9999	0.99	No.9 Furnace production (Si)	32850			41461	20.7303	0.6999	138170.0	69.085017
003--05	no. 9 Fce.	PM2.5	PM2.5	yes	3.30	lb/ton of alloy	Building	0.7	0.9999	0.99	No.9 Furnace FeSi production	32850			325	0.1626	0.6999	1083.8	0.541899
003--05	no. 9 Fce.	PM2.5	PM2.5	yes	3.09	lb/ton of alloy	Building	0.7	0.9999	0.99	No.9 Furnace production (Si)	32850			30718	15.3589	0.6999	102368.6	51.184284
003--05	no. 9 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No. 9 Furance alloy production	32850			1	0.0005	0.0000	1	0.000494
003--05	no. 9 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No. 9 Furance alloy production	32850			0	0.0000	0.0000	0	0.000005
003--05	no. 9 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000000
003--05	no. 9 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000075
003--05	no. 9 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0002	0.0000	0	0.000243
003--05	no. 9 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Building	0	0.99	0	No.9 Furnace coal type materials	35640			0.936	0.0005	0.0000	0.9	0.000468
003--05	no. 9 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Building	0	0.99	0	No.9 furnace wood type materials	68901			0.02	0.0000	0.0000	0.0	0.000010
003--05	no. 9 Fce.	SOx	SO2	yes	40.00	lb/ton of alloy	None		0.99		No.9 Furnace production (FeSi)	32850			13273	6.6364	0.0000	13273	6.636364
003--05	no. 9 Fce.	SOx	SO2	yes	28.27	lb/ton of alloy	None		0.99		No.9 Furnace production (Si)	32850			9379	4.6896	0.0000	9379	4.689586
003--05	no. 9 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000005
003--05	no. 9 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	15	0.0076	0.0000	15	0.007556
003--05	no. 9 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000009
003--05	no. 9 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000047
003--05	no. 9 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	7	0.0037	0.0000	7	0.003659
003--05	no. 9 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No.9 furnace wood type materials	68901	Stack test Ratio	1.11	0	0.0001	0.0000	0	0.000119
003--05	no. 9 Fce.	TSP (Particulate)	PT	yes	6.29	lb/ton of alloy	Building	0.7	0.9999	0.99	No.9 Furnace FeSi production	32850			620	0.3099	0.6999	2065.3	1.032629
003--05	no. 9 Fce.	TSP (Particulate)	PT	yes	3.68	lb/ton of alloy	Building	0.7	0.9999	0.99	No.9 Furnace production (Si)	32850			36590	18.2948	0.6999	121937.1	60.968575
003--05	no. 9 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000002
003--05	no. 9 Fce.	VOC	VOC	yes	0.86	lb/ton of alloy	None		0.99		No.9 Furnace production - FeSi	32850			286	0.1431	0.0000	286	0.143097
003--05	no. 9 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None		0.99		No.9 Furnace production (Si)	32850			484	0.2422	0.0000	484	0.242227
003--05	no. 9 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No.9 Furnace coal type materials	35640	Stack test Ratio	1.11	0	0.0000	0.0000	0	0.000007
003--06	no. 14 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	25	0.0126	0.0000	25	0.01
003--06	no. 14 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	1,2-Dichloroethane (ethylidene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	28	0.0139	0.0000	28	0.01
003--06	no. 14 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	32	0.0158	0.0000	32	0.02

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003--06	no. 14 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	2,4-Dinitrotoluene	121142	no	0.00E+00	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	2-Chloroacetophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	31	0.0154	0.0000	31	0.02
003--06	no. 14 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	25	0.0126	0.0000	25	0.01
003--06	no. 14 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	793	0.3965	0.0000	793	0.40
003--06	no. 14 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	1	0.0003	0.0000	1	0.00
003--06	no. 14 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			277	0.1386	0.0000	277	0.14
003--06	no. 14 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470			2005	1.0026	0.0000	2005	1.00
003--06	no. 14 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99		No.14 Furnace coal type materials	30,470			1	0.0003	0.8910	5.0	0.00
003--06	no. 14 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.14 furnace wood type materials	63,428			1	0.0003	0.8910	4.7	0.00
003--06	no. 14 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 14 Furnace alloy production	26,280			5	0.0024	0.8910	44.8	0.02
003--06	no. 14 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.0000	0.8910	0.0	0.00
003--06	no. 14 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			348	0.1741	0.0000	348	0.17
003--06	no. 14 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	31	0.0154	0.0000	31	0.02
003--06	no. 14 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99		No.14 Furnace coal type materials	30,470	Btu of Coal	14000.00	0.7	0.0003	0.9801	34.4	0.02
003--06	no. 14 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.0000	0.9801	0.4	0.00
003--06	no. 14 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	7	0.0034	0.0000	7	0.00
003--06	no. 14 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	2	0.0009	0.0000	2	0.00
003--06	no. 14 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	7	0.0035	0.0000	7	0.00
003--06	no. 14 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	14	0.0072	0.0000	14	0.01
003--06	no. 14 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99		No.14 Furnace coal type materials	30,470	Btu of Coal	14000.00	2.4	0.0012	0.8910	21.7	0.01
003--06	no. 14 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.0001	0.8910	2.5	0.00
003--06	no. 14 Fce.	Carbon Dioxide	124389	no	5.68E+03	lb/ton of charcoal	None		0.99		No.14 Furnace charcoal type materials	2,861	CO2 Stack Test Ratio	1.00	16264719	8132.3594	0.0000		
003--06	no. 14 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	CO2 Stack Test Ratio	1.00	180476857	90238.4285	0.0000	180476857	90,238.43
003--06	no. 14 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	CO2 Stack Test Ratio	1.00	217545354	108772.6772	0.0000	217545354	108,772.68
003--06	no. 14 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	6	0.0029	0.0000	6	0.00
003--06	no. 14 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	43	0.0215	0.0000	43	0.02
003--06	no. 14 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428			61	0.0303	0.0000	61	0.03
003--06	no. 14 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	1	0.0005	0.0000	1	0.00
003--06	no. 14 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	32	0.0158	0.0000	32	0.02

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003--06	no. 14 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	3	0.0013	0.0000	3	0.00
003--06	no. 14 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	27	0.0134	0.0000	27	0.01
003--06	no. 14 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	11	0.0053	0.0000	11	0.01
003--06	no. 14 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	49	0.0243	0.0000	49	0.02
003--06	no. 14 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99		No. 14 Furnace alloy production	26,280			4	0.0022	0.9801	221.9	0.11
003--06	no. 14 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.0000	0.9801	0.0	0.00
003--06	no. 14 Fce.	CO	CO	yes	21.60	lb/ton of alloy	None				No. 14 Furnace alloy production	26,280			567648	283.8240	0.0000	567648	283.82
003--06	no. 14 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99		No.14 Furnace coal type materials	30,470			3	0.0015	0.9801	151.6	0.08
003--06	no. 14 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.0000	0.9801	2.1	0.00
003--06	no. 14 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470			9	0.0044	0.0000	9	0.00
003--06	no. 14 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	2	0.0011	0.0000	2	0.00
003--06	no. 14 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	4	0.0021	0.0000	4	0.00
003--06	no. 14 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	30	0.0148	0.0000	30	0.01
003--06	no. 14 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	2	0.0009	0.0000	2	0.00
003--06	no. 14 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	2	0.0009	0.0000	2	0.00
003--06	no. 14 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			158	0.0792	0.0000	158	0.08
003--06	no. 14 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			68599	34.2993	0.0000	68599	34.30
003--06	no. 14 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	3	0.0015	0.0000	3	0.00
003--06	no. 14 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			3122	1.5610	0.0000	3122	1.56
003--06	no. 14 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	26	0.0128	0.0000	26	0.01
003--06	no. 14 Fce.	Lead	7439921	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99		No. 14 Furnace alloy production	26,280			24	0.0118	0.8910	217.0	0.11
003--06	no. 14 Fce.	Lead compounds	PBC	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99		No. 14 Furnace alloy production	26,280			24	0.0118	0.8910	217.0	0.11
003--06	no. 14 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99		No. 14 Furnace alloy production	26,280			8	0.0038	0.9801	384.3	0.19
003--06	no. 14 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.0000	0.9801	0.0	0.00
003--06	no. 14 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			0	0.0000	0.0000	0.0	0.00
003--06	no. 14 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428			0	0.0000	0.0000	0.0	0.00
003--06	no. 14 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			20506	10.2530	0.0000	20506	10.25
003--06	no. 14 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	1	0.0004	0.0000	1	0.00
003--06	no. 14 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	30	0.0148	0.0000	30	0.01
003--06	no. 14 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	2	0.0012	0.0000	2	0.00
003--06	no. 14 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	36	0.0179	0.0000	36	0.02
003--06	no. 14 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	1	0.0004	0.0000	1	0.00
003--06	no. 14 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	1	0.0004	0.0000	1	0.00
003--06	no. 14 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	2	0.0008	0.0000	2	0.00
003--06	no. 14 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			6	0.0028	0.0000	6	0.00
003--06	no. 14 Fce.	hthalene	#N/A	no	1.12E-06	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--06	no. 14 Fce.	hthalene	#N/A	no	0.00E+00	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99		No. 14 Furnace alloy production	26,280			0	0.0002	0.8910	3.4	0.00
003--06	no. 14 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.0000	0.8910	0.0	0.00
003--06	no. 14 Fce.	NOx	NO2	no	3.00E-02	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470			905	0.4525	0.0000	905	0.45
003--06	no. 14 Fce.	NOx	NO2	no	1.35E-01	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428			8490	4.2449	0.0000	8490	4.24
003--06	no. 14 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None				No. 14 Furnace alloy production	26,280			699810	349.9051	0.0000	699810	349.91
003--06	no. 14 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None				No. 14 Furnace alloy production	26,280			699810	349.9051	0.0000	699810	349.91
003--06	no. 14 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	7	0.0033	0.0000	7	0.00
003--06	no. 14 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	1	0.0004	0.0000	1	0.00
003--06	no. 14 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	49	0.0244	0.0000	49	0.02
003--06	no. 14 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	None	No. 14 Furnace alloy production	26,280			74.4	0.03719	0.8910	682.3	0.34
003--06	no. 14 Fce.	PM10	PM10	yes	4.17	lb/ton of alloy	Baghouse	0.99	0.99	None	No. 14 Furnace alloy production	26,280			109456	54.7281	0.9801	5500311.6	2,750.16
003--06	no. 14 Fce.	PM2.5	PM2.5	yes	3.09	lb/ton of alloy	Baghouse	0.99	0.99	None	No. 14 Furnace alloy production	26,280			81095	40.5474	0.9801	4075116.8	2,037.56
003--06	no. 14 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			1	0.0004	0.0000	1	0.00
003--06	no. 14 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			1	0.0004	0.0000	1	0.00
003--06	no. 14 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	17	0.0084	0.0000	17	0.01
003--06	no. 14 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	58	0.0291	0.0000	58	0.03
003--06	no. 14 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Baghouse	0	0.99		No.14 Furnace coal type materials	30,470			78	0.0392	0.0000	78.4	0.04
003--06	no. 14 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Baghouse	0	0.99		No.14 furnace wood type materials	63,428			2	0.0009	0.0000	1.8	0.00
003--06	no. 14 Fce.	SOx	SO2	yes	28.27	lb/ton of alloy	None				No. 14 Furnace alloy production	26,280			742830	371.4152	0.0000	742830	371.42
003--06	no. 14 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	1	0.0006	0.0000	1	0.00
003--06	no. 14 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	1815	0.9076	0.0000	1815	0.91
003--06	no. 14 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	2	0.0009	0.0000	2	0.00
003--06	no. 14 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	11	0.0053	0.0000	11	0.01
003--06	no. 14 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	879	0.4395	0.0000	879	0.44
003--06	no. 14 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	29	0.0143	0.0000	29	0.01
003--06	no. 14 Fce.	TSP (Particulate)	PT	yes	5.95	lb/ton of alloy	Baghouse	0.99	0.99	None	No. 14 Furnace alloy production	26,280			156366	78.1830	0.9801	7857587.9	3,928.79
003--06	no. 14 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0002	0.0000	0	0.00
003--06	no. 14 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None				No. 14 Furnace alloy production	26,280			38369	19.1844	0.0000	38369	19.18
003--06	no. 14 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	2	0.0008	0.0000	2	0.00
003--06	no. 14 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	1,2-Dichloroethane (ethylidene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0002	0.0000	0	0.00
003--06	no. 14 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00



Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--06	no. 14 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	2,4-Dinitrotoluene	121142	no	0.00E+00	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	2-Chloroaceteophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0002	0.0000	0	0.00
003--06	no. 14 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	8	0.0040	0.0000	8	0.00
003--06	no. 14 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			3	0.0014	0.0000	3	0.00
003--06	no. 14 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470			20	0.0101	0.0000	20	0.01
003--06	no. 14 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99	0.7	No.14 Furnace coal type materials	30,470			0.017	0.000008310	0.6930	0.1	0.00
003--06	no. 14 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.000007896	0.6930	0.1	0.00
003--06	no. 14 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 14 Furnace alloy production	26,280			0	0.0001	0.6999	0.5	0.00
003--06	no. 14 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.0000	0.6999	0.0	0.00
003--06	no. 14 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			4	0.0018	0.0000	4	0.00
003--06	no. 14 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0002	0.0000	0	0.00
003--06	no. 14 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99	0.7	No.14 Furnace coal type materials	30,470	Btu of Coal	14000.00	0.209	0.0001047060	0.6930	0.7	0.00
003--06	no. 14 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.0000010994	0.6930	0.0	0.00
003--06	no. 14 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99	0.7	No.14 Furnace coal type materials	30,470	Btu of Coal	14000.00	0.072	0.000036195	0.6930	0.2	0.00
003--06	no. 14 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.000004098	0.6930	0.0	0.00
003--06	no. 14 Fce.	Carbon Dioxide	124389	no	5.68E+03	lb/ton of charcoal	None		0.99		No.14 Furnace charcoal type materials	2,861	CO2 Stack Test Ratio	1.00	164290	82.1450	0.0000		
003--06	no. 14 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	CO2 Stack Test Ratio	1.00	1822999	911.4993	0.0000	1822999	911.50
003--06	no. 14 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	CO2 Stack Test Ratio	1.00	2197428	1098.7139	0.0000	2197428	1,098.71
003--06	no. 14 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0002	0.0000	0	0.00
003--06	no. 14 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428			1	0.0003	0.0000	1	0.00
003--06	no. 14 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0002	0.0000	0	0.00
003--06	no. 14 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--06	no. 14 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0002	0.0000	0	0.00
003--06	no. 14 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No. 14 Furnace alloy production	26,280			1	0.000669	0.6930	4.4	0.00
003--06	no. 14 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.000000	0.6930	0.0	0.00
003--06	no. 14 Fce.	CO	CO	yes	21.60	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			5734	2.8669	0.0000	5734	2.87
003--06	no. 14 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99	0.7	No.14 Furnace coal type materials	30,470			0.923	0.00046167	0.6930	3.0	0.00
003--06	no. 14 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.00000650	0.6930	0.0	0.00
003--06	no. 14 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470			0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99	0.7	No. 14 Furnace alloy production	26,280			2	0.0008	0.0000	2	0.00
003--06	no. 14 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			693	0.3465	0.0000	693	0.35
003--06	no. 14 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			32	0.0158	0.0000	32	0.02
003--06	no. 14 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	Lead	7439921	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 14 Furnace alloy production	26,280			0.716727	0.0004	0.6999	2.4	0.00
003--06	no. 14 Fce.	Lead compounds	PBC	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 14 Furnace alloy production	26,280			1	0.0004	0.6999	2.4	0.00
003--06	no. 14 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No. 14 Furnace alloy production	26,280			2	0.0011587	0.6930	7.5	0.00
003--06	no. 14 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.0000000	0.6930	0.0	0.00
003--06	no. 14 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None	0	0.99	0	No. 14 Furnace alloy production	26,280			0	0.0000000524	0.0000	0.0	0.00
003--06	no. 14 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None	0	0.99	0	No.14 furnace wood type materials	63,428			0	0.0000000000	0.0000	0.0	0.00
003--06	no. 14 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			207	0.1036	0.0000	207	0.10
003--06	no. 14 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0002	0.0000	0	0.00
003--06	no. 14 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	hthalene	#N/A	no	1.12E-06	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	hthalene	#N/A	no	0.00E+00	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 14 Furnace alloy production	26,280			0	0.0000	0.6999	0.0	0.00

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003--06	no. 14 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.14 furnace wood type materials	63,428			0	0.0000	0.6999	0.0	0.00
003--06	no. 14 Fce.	NOx	NO2	no	3.00E-02	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470			9	0.0046	0.0000	9	0.00
003--06	no. 14 Fce.	NOx	NO2	no	1.35E-01	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428			86	0.0429	0.0000	86	0.04
003--06	no. 14 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			7069	3.5344	0.0000	7069	3.53
003--06	no. 14 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			7069	3.5344	0.0000	7069	3.53
003--06	no. 14 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0002	0.0000	0	0.00
003--06	no. 14 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 14 Furnace alloy production	26,280			2.3	0.00113	0.6930	7.3	0.00
003--06	no. 14 Fce.	PM10	PM10	yes	4.17	lb/ton of alloy	Building	0.7	0.9999	0.99	No. 14 Furnace alloy production	26,280			33169	16.5843	0.6999	110536.0	55.27
003--06	no. 14 Fce.	PM2.5	PM2.5	yes	3.09	lb/ton of alloy	Building	0.7	0.9999	0.99	No. 14 Furnace alloy production	26,280			24574	12.2871	0.6999	81894.9	40.95
003--06	no. 14 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			1	0.0004	0.0000	1	0.00
003--06	no. 14 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	1	0.0003	0.0000	1	0.00
003--06	no. 14 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Building	0	0.99	0	No.14 Furnace coal type materials	30,470			0.800	0.0004	0.0000	0.8	0.00
003--06	no. 14 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Building	0	0.99	0	No.14 furnace wood type materials	63,428			0.02	0.0000	0.0000	0.0	0.00
003--06	no. 14 Fce.	SOx	SO2	yes	28.27	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			7503	3.7517	0.0000	7503	3.75
003--06	no. 14 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	18	0.0092	0.0000	18	0.01
003--06	no. 14 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	9	0.0044	0.0000	9	0.00
003--06	no. 14 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No.14 furnace wood type materials	63,428	Stack test Ratio	1.46	0	0.0001	0.0000	0	0.00
003--06	no. 14 Fce.	TSP (Particulate)	PT	yes	5.95	lb/ton of alloy	Building	0.7	0.9999	0.99	No. 14 Furnace alloy production	26,280			47384	23.6918	0.6999	157908.6	78.95
003--06	no. 14 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--06	no. 14 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None		0.99		No. 14 Furnace alloy production	26,280			388	0.1938	0.0000	388	0.19
003--06	no. 14 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No.14 Furnace coal type materials	30,470	Stack test Ratio	1.46	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	18	0.0090	0.0000	18	0.01
003--07	no. 15 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	1,2-Dichloroethane (ethyldiene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	19	0.0095	0.0000	19	0.01
003--07	no. 15 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	22	0.0108	0.0000	22	0.01
003--07	no. 15 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	2,4-Dinitrotoluene	121142	no	0.00E+00	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00

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003--07	no. 15 Fce.	2-Chloroaceteophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	22	0.0110	0.0000	22	0.01
003--07	no. 15 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	18	0.0089	0.0000	18	0.01
003--07	no. 15 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	542	0.2708	0.0000	542	0.27
003--07	no. 15 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0002	0.0000	0	0.00023498
003--07	no. 15 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00000104
003--07	no. 15 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			190	0.0950	0.0000	190	0.09
003--07	no. 15 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872			1176	0.5880	0.0000	1176	0.59
003--07	no. 15 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99		No.15 Furnace coal type materials	17,872			0	0.0002	0.8910	2.9	0.00
003--07	no. 15 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.0001	0.8910	2.7	0.00
003--07	no. 15 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 15 Furnace alloy production	18,000			3	0.0017	0.8910	30.7	0.02
003--07	no. 15 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.0000	0.8910	0.0	0.00
003--07	no. 15 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			239	0.1193	0.0000	239	0.12
003--07	no. 15 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	22	0.0110	0.0000	22	0.01
003--07	no. 15 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99		No.15 Furnace coal type materials	17,872	Btu of Coal	14000.00	0.4	0.0002	0.9801	20.2	0.01
003--07	no. 15 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.0000	0.9801	0.2	0.00
003--07	no. 15 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	5	0.0023	0.0000	5	0.00
003--07	no. 15 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	1	0.0006	0.0000	1	0.00
003--07	no. 15 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	5	0.0025	0.0000	5	0.00
003--07	no. 15 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	10	0.0049	0.0000	10	0.00
003--07	no. 15 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99		No.15 Furnace coal type materials	17,872	Btu of Coal	14000.00	1.4	0.0007	0.8910	12.7	0.01
003--07	no. 15 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.0001	0.8910	1.4	0.00
003--07	no. 15 Fce.	Carbon Dioxide	124389	no	5.68E+03	lb/ton of charcoal	None		0.99		No.15 Furnace charcoal type materials	170	CO2 Stack Test Ratio	1.00	964489	482.2444	0.0000		
003--07	no. 15 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	CO2 Stack Test Ratio	1.00	105857643	52928.8216	0.0000	105857643	52,928.82
003--07	no. 15 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	CO2 Stack Test Ratio	1.00	122755972	61377.9859	0.0000	122755972	61,377.99
003--07	no. 15 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	4	0.0020	0.0000	4	0.00
003--07	no. 15 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	29	0.0147	0.0000	29	0.01
003--07	no. 15 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791			34	0.0171	0.0000	34	0.02
003--07	no. 15 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	1	0.0003	0.0000	1	0.00
003--07	no. 15 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	22	0.0108	0.0000	22	0.01
003--07	no. 15 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	2	0.0009	0.0000	2	0.00
003--07	no. 15 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	18	0.0091	0.0000	18	0.01
003--07	no. 15 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	7	0.0037	0.0000	7	0.00
003--07	no. 15 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	33	0.0166	0.0000	33	0.02

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--07	no. 15 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99		No. 15 Furnace alloy production	18,000			3	0.0015	0.9801	152.0	0.08
003--07	no. 15 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.0000	0.9801	0.0	0.00
003--07	no. 15 Fce.	CO	CO	yes	22.41	lb/ton of alloy	None				No. 15 Furnace alloy production	18,000			403380	201.6900	0.0000	403380	201.69
003--07	no. 15 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99		No.15 Furnace coal type materials	17,872			2	0.0009	0.9801	88.9	0.04
003--07	no. 15 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.0000	0.9801	1.2	0.00
003--07	no. 15 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872			5	0.0026	0.0000	5	0.00
003--07	no. 15 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	2	0.0008	0.0000	2	0.00
003--07	no. 15 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	3	0.0015	0.0000	3	0.00
003--07	no. 15 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	20	0.0101	0.0000	20	0.01
003--07	no. 15 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	1	0.0007	0.0000	1	0.00
003--07	no. 15 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	1	0.0006	0.0000	1	0.00
003--07	no. 15 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			109	0.0543	0.0000	109	0.05
003--07	no. 15 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			46985	23.4927	0.0000	46985	23.49
003--07	no. 15 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	2	0.0010	0.0000	2	0.00
003--07	no. 15 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			2138	1.0692	0.0000	2138	1.07
003--07	no. 15 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	18	0.0091	0.0000	18	0.01
003--07	no. 15 Fce.	Lead	7439921	yes	0.0009	lb/ton of alloy	Baghouse	0.9	0.99		No. 15 Furnace alloy production	18,000			16	0.0081	0.8910	148.6	0.07
003--07	no. 15 Fce.	Lead compounds	PBC	yes	0.0009	lb/ton of alloy	Baghouse	0.9	0.99		No. 15 Furnace alloy production	18,000			16	0.0081	0.8910	148.6	0.07
003--07	no. 15 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99		No. 15 Furnace alloy production	18,000			5	0.0026	0.9801	263.2	0.13
003--07	no. 15 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.0000	0.9801	0.0	0.00
003--07	no. 15 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			0	0.0000	0.0000	0.0	0.00
003--07	no. 15 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791			0	0.0000	0.0000	0.0	0.00
003--07	no. 15 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			14045	7.0226	0.0000	14045	7.02
003--07	no. 15 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	1	0.0003	0.0000	1	0.00
003--07	no. 15 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	20	0.0101	0.0000	20	0.01
003--07	no. 15 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	2	0.0009	0.0000	2	0.00
003--07	no. 15 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	24	0.0122	0.0000	24	0.01
003--07	no. 15 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	1	0.0003	0.0000	1	0.00
003--07	no. 15 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	1	0.0003	0.0000	1	0.00
003--07	no. 15 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	1	0.0005	0.0000	1	0.00
003--07	no. 15 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			4	0.0019	0.0000	4	0.00
003--07	no. 15 Fce.	hthalene	#N/A	no	1.12E-06	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	hthalene	#N/A	no	0.00E+00	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99		No. 15 Furnace alloy production	18,000			0	0.0001	0.8910	2.3	0.00
003--07	no. 15 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.0000	0.8910	0.0	0.00
003--07	no. 15 Fce.	NOx	NO2	no	3.00E-02	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872			531	0.2654	0.0000	531	0.27

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--07	no. 15 Fce.	NOx	NO2	no	1.35E-01	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791			4791	2.3953	0.0000	4791	2.40
003--07	no. 15 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None				No. 15 Furnace alloy production	18,000			479322	239.6610	0.0000	479322	239.66
003--07	no. 15 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	5	0.0023	0.0000	5	0.00
003--07	no. 15 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	1	0.0003	0.0000	1	0.00
003--07	no. 15 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	33	0.0166	0.0000	33	0.02
003--07	no. 15 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	None	No. 15 Furnace alloy production	18,000			50.9	0.02547	0.8910	467.3	0.23
003--07	no. 15 Fce.	PM10	PM10	yes	4.17	lb/ton of alloy	Baghouse	0.99	0.99	None	No. 15 Furnace alloy production	18,000			74970	37.4850	0.9801	3767336.7	1,883.67
003--07	no. 15 Fce.	PM2.5	PM2.5	yes	3.09	lb/ton of alloy	Baghouse	0.99	0.99	None	No. 15 Furnace alloy production	18,000			55544	27.7722	0.9801	2791175.9	1,395.59
003--07	no. 15 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			1	0.0003	0.0000	1	0.00
003--07	no. 15 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			1	0.0003	0.0000	1	0.00
003--07	no. 15 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	12	0.0060	0.0000	12	0.01
003--07	no. 15 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	40	0.0199	0.0000	40	0.02
003--07	no. 15 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Baghouse	0	0.99		No.15 Furnace coal type materials	17,872			46	0.0230	0.0000	46.0	0.02
003--07	no. 15 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Baghouse	0	0.99		No.15 furnace wood type materials	35,791			1	0.0005	0.0000	1.0	0.00
003--07	no. 15 Fce.	SOx	SO2	yes	28.266	lb/ton of alloy	None				No. 15 Furnace alloy production	18,000			508788	254.3940	0.0000	508788	254.39
003--07	no. 15 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	1	0.0004	0.0000	1	0.00
003--07	no. 15 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	1240	0.6199	0.0000	1240	0.62
003--07	no. 15 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	1	0.0007	0.0000	1	0.00
003--07	no. 15 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	8	0.0038	0.0000	8	0.00
003--07	no. 15 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	600	0.3002	0.0000	600	0.30
003--07	no. 15 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	20	0.0098	0.0000	20	0.01
003--07	no. 15 Fce.	TSP (Particulate)	PT	yes	5.95	lb/ton of alloy	Baghouse	0.99	0.99	None	No. 15 Furnace alloy production	18,000			107100	53.5500	0.9801	5381909.5	2,690.95
003--07	no. 15 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None				No. 15 Furnace alloy production	18,000			26280	13.1400	0.0000	26280	13.14
003--07	no. 15 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	1	0.0006	0.0000	1	0.00
003--07	no. 15 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	1,2-Dichloroethane (ethyldiene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	2,4-Dinitrotoluene	121142	no	0.00E+00	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	2-Chloroaceteophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--07	no. 15 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	5	0.0027	0.0000	5	0.00
003--07	no. 15 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00000237
003--07	no. 15 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00000001
003--07	no. 15 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			2	0.0010	0.0000	2	0.00
003--07	no. 15 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872			12	0.0059	0.0000	12	0.01
003--07	no. 15 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99	0.7	No.15 Furnace coal type materials	17,872			0.010	0.00000487	0.6930	0.0	0.00
003--07	no. 15 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.00000446	0.6930	0.0	0.00
003--07	no. 15 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 15 Furnace alloy production	18,000			0	0.00005073	0.8910	0.9	0.00
003--07	no. 15 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.00000000	0.8910	0.0	0.00
003--07	no. 15 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			2	0.0012	0.0000	2	0.00
003--07	no. 15 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99	0.7	No.15 Furnace coal type materials	17,872	Btu of Coal	14000.00	0.123	0.000061415	0.6930	0.4	0.00
003--07	no. 15 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.000000620	0.6930	0.0	0.00
003--07	no. 15 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99	0.7	No.15 Furnace coal type materials	17,872	Btu of Coal	14000.00	0.042	0.00002123	0.6930	0.1	0.00
003--07	no. 15 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.00000231	0.6930	0.0	0.00
003--07	no. 15 Fce.	Carbon Dioxide	124389	no	5.68E+03	lb/ton of charcoal	None		0.99		No.15 Furnace charcoal type materials	170	CO2 Stack Test Ratio	1.00	9742	4.8712	0.0000		
003--07	no. 15 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	CO2 Stack Test Ratio	1.00	1069269	534.6346	0.0000	1069269	534.63
003--07	no. 15 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	CO2 Stack Test Ratio	1.00	1239959	619.9797	0.0000	1239959	619.98
003--07	no. 15 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791			0	0.0002	0.0000	0	0.00
003--07	no. 15 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0002	0.0000	0	0.00
003--07	no. 15 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No. 15 Furnace alloy production	18,000			1	0.00045818	0.6930	3.0	0.00
003--07	no. 15 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.00000000	0.6930	0.0	0.00
003--07	no. 15 Fce.	CO	CO	yes	21.6	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			3927	1.9636	0.0000	3927	1.96

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--07	no. 15 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99	0.7	No.15 Furnace coal type materials	17,872			0.542	0.0002708	0.6930	1.8	0.00
003--07	no. 15 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.0000037	0.6930	0.0	0.00
003--07	no. 15 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872			0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99	0.7	No. 15 Furnace alloy production	18,000			1	0.0006	0.0000	1	0.00
003--07	no. 15 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			475	0.2373	0.0000	475	0.24
003--07	no. 15 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			22	0.0108	0.0000	22	0.01
003--07	no. 15 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	Lead	7439921	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 15 Furnace alloy production	18,000			0	0.0002455	0.8910	4.5	0.00
003--07	no. 15 Fce.	Lead compounds	PBC	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 15 Furnace alloy production	18,000			0	0.0002455	0.8910	4.5	0.00
003--07	no. 15 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No. 15 Furnace alloy production	18,000			2	0.0007936	0.6930	5.2	0.00
003--07	no. 15 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.15 furnace wood type materials	35,791			0.000000	0.0000000	0.6930	0.0	0.00
003--07	no. 15 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None	0	0.99	0	No. 15 Furnace alloy production	18,000			0	0.0000	0.0000	0.0	0.00
003--07	no. 15 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None	0	0.99	0	No.15 furnace wood type materials	35,791			0	0.0000	0.0000	0.0	0.00
003--07	no. 15 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			142	0.0709	0.0000	142	0.07
003--07	no. 15 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	hthalene	#N/A	no	1.12E-06	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	hthalene	#N/A	no	0.00E+00	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 15 Furnace alloy production	18,000			0	0.000003818	0.8910	0.1	0.00
003--07	no. 15 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.15 furnace wood type materials	35,791			0	0.000000000	0.8910	0.0	0.00
003--07	no. 15 Fce.	NOx	NO2	no	3.00E-02	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872			5	0.0027	0.0000	5	0.00
003--07	no. 15 Fce.	NOx	NO2	no	1.35E-01	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791			48	0.0242	0.0000	48	0.02
003--07	no. 15 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			4842	2.4208	0.0000	4842	2.42
003--07	no. 15 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00



Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--07	no. 15 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0002	0.0000	0	0.00
003--07	no. 15 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 15 Furnace alloy production	18,000			1.5	0.00077	0.6930	5.0	0.00
003--07	no. 15 Fce.	PM10	PM10	yes	4.17	lb/ton of alloy	Building	0.7	0.9999	0.99	No. 15 Furnace alloy production	18,000			22718	11.35909	0.6999	75709.6	37.85
003--07	no. 15 Fce.	PM2.5	PM2.5	yes	3.09	lb/ton of alloy	Building	0.7	0.9999	0.99	No. 15 Furnace alloy production	18,000			16832	8.4158	0.6999	56092.4	28.05
003--07	no. 15 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			1	0.0003	0.0000	1	0.00
003--07	no. 15 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0002	0.0000	0	0.00
003--07	no. 15 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Building	0	0.99	0	No.15 Furnace coal type materials	17,872			0.469	0.0002	0.0000	0.5	0.00
003--07	no. 15 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Building	0	0.99	0	No.15 furnace wood type materials	35,791			0.01	0.0000	0.0000	0.0	0.00
003--07	no. 15 Fce.	SOx	SO2	yes	28.266	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			5139	2.5696	0.0000	5139	2.57
003--07	no. 15 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	13	0.0063	0.0000	13	0.01
003--07	no. 15 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	6	0.0030	0.0000	6	0.00
003--07	no. 15 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No.15 furnace wood type materials	35,791	Stack test Ratio	1.77	0	0.0001	0.0000	0	0.00
003--07	no. 15 Fce.	TSP (Particulate)	PT	yes	5.95	lb/ton of alloy	Building	0.7	0.9999	0.99	No. 15 Furnace alloy production	18,000			32455	16.2273	0.6999	108156.6	54.08
003--07	no. 15 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--07	no. 15 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None		0.99		No. 15 Furnace alloy production	18,000			265	0.1327	0.0000	265	0.13
003--07	no. 15 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No.15 Furnace coal type materials	17,872	Stack test Ratio	1.77	0	0.0000	0.0000	0	0.00
003--08	no. 16 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	15	0.0077	0.0000	15	0.007699
003--08	no. 16 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000031
003--08	no. 16 Fce.	1,2-Dichloroethane (ethylidene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	16	0.0078	0.0000	16	0.007847
003--08	no. 16 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	18	0.0089	0.0000	18	0.008929
003--08	no. 16 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0.000	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000006
003--08	no. 16 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000049
003--08	no. 16 Fce.	2,4-Dinitrotoluene	121142	no	0.00E+00	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	2-Chloroaceteophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	19	0.0094	0.0000	19	0.009421
003--08	no. 16 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000030
003--08	no. 16 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	15	0.0077	0.0000	15	0.007672
003--08	no. 16 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	449	0.2246	0.0000	449	0.224587
003--08	no. 16 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0002	0.0000	0	0.000202
003--08	no. 16 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000001

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003--08	no. 16 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			74	0.0369	0.0000	74	0.036925
003--08	no. 16 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595			500	0.2499	0.0000	500	0.249898
003--08	no. 16 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000012
003--08	no. 16 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99		No.16 Furnace coal type materials	7,595			0	0.0001	0.8910	1.2	0.000621
003--08	no. 16 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0001	0.8910	1.1	0.000548
003--08	no. 16 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.16 Furnace alloy production	7,000			1	0.0007	0.8910	11.9	0.005972
003--08	no. 16 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.8910	0.0	0.000000
003--08	no. 16 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			93	0.0464	0.0000	93	0.046375
003--08	no. 16 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000025
003--08	no. 16 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	19	0.0094	0.0000	19	0.009421
003--08	no. 16 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99		No.16 Furnace coal type materials	7,595	Btu of Coal	14000.00	0.2	0.0001	0.9801	8.6	0.004285
003--08	no. 16 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.9801	0.1	0.000042
003--08	no. 16 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000023
003--08	no. 16 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000007
003--08	no. 16 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	4	0.0019	0.0000	4	0.001899
003--08	no. 16 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	1	0.0005	0.0000	1	0.000525
003--08	no. 16 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	4	0.0022	0.0000	4	0.002153
003--08	no. 16 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	8	0.0041	0.0000	8	0.004059
003--08	no. 16 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99		No.16 Furnace coal type materials	7,595	Btu of Coal	14000.00	0.6	0.0003	0.8910	5.4	0.002704
003--08	no. 16 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.8910	0.6	0.000284
003--08	no. 16 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	CO2 Stack Test Ratio	1.00	44985945	22492.9723	0.0000	44985945	22492.972250
003--08	no. 16 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	CO2 Stack Test Ratio	1.00	50356324	25178.1618	0.0000	50356324	25178.161800
003--08	no. 16 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	3	0.0017	0.0000	3	0.001750
003--08	no. 16 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	24	0.0122	0.0000	24	0.012176
003--08	no. 16 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682			14	0.0070	0.0000	14	0.007025
003--08	no. 16 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	1	0.0003	0.0000	1	0.000296
003--08	no. 16 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	18	0.0089	0.0000	18	0.008929
003--08	no. 16 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	2	0.0008	0.0000	2	0.000794
003--08	no. 16 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	15	0.0076	0.0000	15	0.007576
003--08	no. 16 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	6	0.0032	0.0000	6	0.003219
003--08	no. 16 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	28	0.0138	0.0000	28	0.013790
003--08	no. 16 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99		No.16 Furnace alloy production	7,000			1	0.0006	0.9801	59.1	0.029548
003--08	no. 16 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.9801	0.0	0.000000
003--08	no. 16 Fce.	CO	CO	yes	21.6	lb/ton of alloy	None				No.16 Furnace production	7,000			151200	75.6000	0.0000	151200	75.600000
003--08	no. 16 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99		No.16 Furnace coal type materials	7,595			1	0.0004	0.9801	37.8	0.018892
003--08	no. 16 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.9801	0.5	0.000247
003--08	no. 16 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000071
003--08	no. 16 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595			2	0.0011	0.0000	2	0.001106

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003--08	no. 16 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	1	0.0006	0.0000	1	0.000646
003--08	no. 16 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No. 16 Furance alloy production	7,000			0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	3	0.0013	0.0000	3	0.001265
003--08	no. 16 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	17	0.0084	0.0000	17	0.008388
003--08	no. 16 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	1	0.0006	0.0000	1	0.000565
003--08	no. 16 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	1	0.0005	0.0000	1	0.000538
003--08	no. 16 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			42	0.0211	0.0000	42	0.021102
003--08	no. 16 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			18272	9.1361	0.0000	18272	9.136050
003--08	no. 16 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	2	0.0009	0.0000	2	0.000902
003--08	no. 16 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			832	0.4158	0.0000	832	0.415800
003--08	no. 16 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	16	0.0078	0.0000	16	0.007806
003--08	no. 16 Fce.	Lead	7439921	yes	0.0009	lb/ton of alloy	None				No.16 Furnace production	7,000			6	0.0032	0.0000	6	0.003150
003--08	no. 16 Fce.	Lead compounds	PBC	yes	0.0009	lb/ton of alloy	None				No.16 Furnace production	7,000			6	0.0032	0.0000	6	0.003150
003--08	no. 16 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99		No.16 Furnace alloy production	7,000			2	0.0010	0.9801	102.4	0.051181
003--08	no. 16 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.9801	0.0	0.000000
003--08	no. 16 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			0	0.0000	0.0000	0.0	0.000001
003--08	no. 16 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682			0	0.0000	0.0000	0.0	0.000000
003--08	no. 16 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			5462	2.7310	0.0000	5462	2.731006
003--08	no. 16 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	1	0.0003	0.0000	1	0.000269
003--08	no. 16 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	17	0.0084	0.0000	17	0.008388
003--08	no. 16 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	2	0.0008	0.0000	2	0.000756
003--08	no. 16 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	20	0.0101	0.0000	20	0.010147
003--08	no. 16 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0002	0.0000	0	0.000229
003--08	no. 16 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	1	0.0003	0.0000	1	0.000269
003--08	no. 16 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	1	0.0005	0.0000	1	0.000471
003--08	no. 16 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			1	0.0007	0.0000	1	0.000739
003--08	no. 16 Fce.	hthalene	#N/A	no	1.12E-06	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000015
003--08	no. 16 Fce.	hthalene	#N/A	no	0.00E+00	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99		No.16 Furnace alloy production	7,000			0	0.0000	0.8910	0.9	0.000450
003--08	no. 16 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.8910	0.0	0.000000
003--08	no. 16 Fce.	NOx	NO2	no	3.00E-02	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595			226	0.1128	0.0000	226	0.112786
003--08	no. 16 Fce.	NOx	NO2	no	1.35E-01	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682			1965	0.9826	0.0000	1965	0.982578
003--08	no. 16 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None				No.16 Furnace production	7,000			186403	93.2015	0.0000	186403	93.201500
003--08	no. 16 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000014
003--08	no. 16 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000036
003--08	no. 16 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	4	0.0019	0.0000	4	0.001894
003--08	no. 16 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0002	0.0000	0	0.000215
003--08	no. 16 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	28	0.0138	0.0000	28	0.013800

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--08	no. 16 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	None	No. 16 Furnace alloy production	7,000			19.8	0.00991	0.8910	181.7	0.090872
003--08	no. 16 Fce.	PM10	PM10	yes	4.17	lb/ton of alloy	Baghouse	0.99	0.99	None	No.16 Furnace production	7,000			29155	14.5775	0.9801	1465075.4	732.537688
003--08	no. 16 Fce.	PM2.5	PM2.5	yes	3.09	lb/ton of alloy	Baghouse	0.99	0.99	None	No.16 Furnace production	7,000			21601	10.8003	0.9801	1085457.3	542.728643
003--08	no. 16 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No. 16 Furance alloy production	7,000			0	0.0001	0.0000	0	0.000105
003--08	no. 16 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No. 16 Furance alloy production	7,000			0	0.0001	0.0000	0	0.000105
003--08	no. 16 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	10	0.0051	0.0000	10	0.005114
003--08	no. 16 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	33	0.0165	0.0000	33	0.016506
003--08	no. 16 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Baghouse	0	0.99		No.16 Furnace coal type materials	7,595			20	0.0098	0.0000	19.5	0.009775
003--08	no. 16 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Baghouse	0	0.99		No.16 furnace wood type materials	14,682			0	0.0002	0.0000	0.4	0.000212
003--08	no. 16 Fce.	SOx	SO2	yes	28.266	lb/ton of alloy	None				No.16 Furnace production	7,000			197862	98.9310	0.0000	197862	98.931000
003--08	no. 16 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	1	0.0003	0.0000	1	0.000336
003--08	no. 16 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	1028	0.5141	0.0000	1028	0.514115
003--08	no. 16 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	1	0.0006	0.0000	1	0.000579
003--08	no. 16 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	6	0.0032	0.0000	6	0.003230
003--08	no. 16 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	498	0.2489	0.0000	498	0.248940
003--08	no. 16 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	16	0.0081	0.0000	16	0.008118
003--08	no. 16 Fce.	TSP (Particulate)	PT	yes	5.95	lb/ton of alloy	Baghouse	0.99	0.99		No.16 Furnace production	7,000			41650	20.8250	0.9801	2092964.8	1046.482412
003--08	no. 16 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000102
003--08	no. 16 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None				No.16 Furnace production	7,000			10220	5.1100	0.0000	10220	5.110000
003--08	no. 16 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	1	0.0005	0.0000	1	0.000498
003--08	no. 16 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	5.72E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000078
003--08	no. 16 Fce.	1,2-Dibromoethane (Ethylene dibromide)	106934	no	1.20E-06	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	1,2-Dichloroethane (ethylidene dichloride)	75343	no	3.02E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000079
003--08	no. 16 Fce.	1,2-Dichloropropane (Propylene dichloride)	78875	no	3.43E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000090
003--08	no. 16 Fce.	2,3,7,8-Tetrachlorodibenzo-p-	1746016	no	8.94E-11	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	2,4,6-Trichlorophenol	88062	no	2.29E-07	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	2,4-Dinitrophenol	51285	no	1.87E-06	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	2,4-Dinitrotoluene	121142	no	0.00E+00	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	2-Chloroaceteophenone	532274	no	7.00E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000095
003--08	no. 16 Fce.	4-Nitrophenol	100027	no	1.14E-06	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Acetaldehyde	75070	no	5.70E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000077
003--08	no. 16 Fce.	Acetaldehyde	75070	no	8.63E-03	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	5	0.0023	0.0000	5	0.002269
003--08	no. 16 Fce.	Acetophenone	98862	no	1.50E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000002
003--08	no. 16 Fce.	Acetophenone	98862	no	3.33E-08	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Acrolein	107028	no	1.07E-02	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			1	0.0004	0.0000	1	0.000373
003--08	no. 16 Fce.	Ammonia	7664417	no	6.65E-02	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595			5	0.0025	0.0000	5	0.002524
003--08	no. 16 Fce.	anthracene	120127	no	8.72E-07	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	anthracene	120127	no	0.00E+00	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--08	no. 16 Fce.	Antimony	7440360	no	1.80E-04	lb/ton of coal	Baghouse	0.9	0.99	0.7	No.16 Furnace coal type materials	7,595			0.004	0.0000	0.6930	0.0	0.000007
003--08	no. 16 Fce.	Antimony	7440360	no	8.22E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.6930	0.0	0.000006
003--08	no. 16 Fce.	Arsenic	7440382	no	1.86E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.16 Furnace alloy production	7,000			0	0.0000	0.8910	0.4	0.000181
003--08	no. 16 Fce.	Arsenic	7440382	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.8910	0.0	0.000000
003--08	no. 16 Fce.	Benzene	71432	no	1.34E-02	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			1	0.0005	0.0000	1	0.000468
003--08	no. 16 Fce.	benzo(g,h,i)perylene	191242	no	2.70E-08	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	benzo(g,h,i)perylene	191242	no	9.67E-07	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Benzyl chloride	100447	no	7.00E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000095
003--08	no. 16 Fce.	Beryllium	7440417	no	8.10E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.99	0.99	0.7	No.16 Furnace coal type materials	7,595		0.00	0.000	0.0000	0.6930	0.0	0.000000
003--08	no. 16 Fce.	Beryllium	7440417	no	1.14E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.6930	0.0	0.000001
003--08	no. 16 Fce.	Biphenyl	92524	no	1.70E-06	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	4.89E-07	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Bis(2-ethylhexyl)phthalate	117817	no	7.30E-05	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000019
003--08	no. 16 Fce.	Bromoform	75252	no	3.90E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000005
003--08	no. 16 Fce.	Bromomethane (methyl bromide)	74839	no	1.60E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000022
003--08	no. 16 Fce.	Bromomethane (methyl bromide)	74839	no	1.56E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000041
003--08	no. 16 Fce.	Cadmium	7440439	no	2.80E+01	lb/10 <sup>12</sup> Btu of coal	Baghouse	0.9	0.99	0.7	No.16 Furnace coal type materials	7,595		0.00	0.000	0.0000	0.6930	0.0	0.000000
003--08	no. 16 Fce.	Cadmium	7440439	no	4.26E-05	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.6930	0.0	0.000003
003--08	no. 16 Fce.	Carbon Dioxide	124389	no	5.92E+03	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	CO2 Stack Test Ratio	1.00	454403	227.2017	0.0000	454403	227.201740
003--08	no. 16 Fce.	Carbon Dioxide	124389	no	3.43E+03	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	CO2 Stack Test Ratio	1.00	508650	254.3249	0.0000	508650	254.324867
003--08	no. 16 Fce.	Carbon disulfide	75150	no	1.30E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000018
003--08	no. 16 Fce.	Carbon tetrachloride	56235	no	4.68E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000123
003--08	no. 16 Fce.	Chlorine	7782505	no	9.67E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682			0	0.0001	0.0000	0	0.000071
003--08	no. 16 Fce.	Chlorobenzene	108907	no	2.20E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000003
003--08	no. 16 Fce.	Chlorobenzene	108907	no	3.43E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000090
003--08	no. 16 Fce.	Chloroform	67663	no	5.90E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000008
003--08	no. 16 Fce.	Chloroform	67663	no	2.91E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000077
003--08	no. 16 Fce.	Chloromethane (Methyl chloride)	74873	no	2.39E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000033
003--08	no. 16 Fce.	Chloromethane (Methyl chloride)	74873	no	5.30E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000139
003--08	no. 16 Fce.	Chromium	7440473	no	1.68E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No.16 Furnace alloy production	7,000			0	0.0002	0.6930	1.2	0.000580
003--08	no. 16 Fce.	Chromium	7440473	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.6930	0.0	0.000000
003--08	no. 16 Fce.	CO	CO	yes	21.6	lb/ton of alloy	None		0.99		No.16 Furnace production	7,000			1527	0.7636	0.0000	1527	0.763636
003--08	no. 16 Fce.	Cobalt	7440484	no	1.00E-02	lb/ton of coal	Baghouse	0.99	0.99	0.7	No.16 Furnace coal type materials	7,595			0.230	0.0001	0.6930	0.7	0.000375
003--08	no. 16 Fce.	Cobalt	7440484	no	6.76E-05	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.6930	0.0	0.000005
003--08	no. 16 Fce.	Cumene	98828	no	5.30E-06	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000001
003--08	no. 16 Fce.	Cyanide	57125	no	2.94E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595			0	0.0000	0.0000	0	0.000011
003--08	no. 16 Fce.	Dimethyl sulfate	77781	no	4.80E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000007
003--08	no. 16 Fce.	dioxins	Dioxins	no	8.95E-09	lb/ton of alloy	None		0.99		No. 16 Furance alloy production	7,000			0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Dioxins	Dioxins	no	0.00E+00	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Ethyl Benzene	100414	no	9.40E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000013

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
003--08	no. 16 Fce.	Ethyl Benzene	100414	no	3.22E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000085
003--08	no. 16 Fce.	Ethyl chloride	75003	no	4.20E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000006
003--08	no. 16 Fce.	Ethylene dichloride	107062	no	4.00E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000005
003--08	no. 16 Fce.	Formaldehyde	50000	no	6.09E-03	lb/ton of alloy	None		0.99	0.7	No.16 Furnace alloy production	7,000			0	0.0002	0.0000	0	0.000215
003--08	no. 16 Fce.	Formaldehyde	50000	no	0.00E+00	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	HCl	7647010	no	2.64E+00	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			185	0.0923	0.0000	185	0.092283
003--08	no. 16 Fce.	Hexane	110543	no	6.70E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000009
003--08	no. 16 Fce.	HF	7664393	no	1.20E-01	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			8	0.0042	0.0000	8	0.004200
003--08	no. 16 Fce.	Isophorone	78591	no	5.80E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000079
003--08	no. 16 Fce.	Lead	7439921	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.16 Furnace production	7,000			0	0.0001	0.8910	1.8	0.000876
003--08	no. 16 Fce.	Lead compounds	PBC	yes	9.00E-04	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.16 Furnace production	7,000			0	0.0001	0.8910	1.8	0.000876
003--08	no. 16 Fce.	Manganese	7439965	no	2.91E-04	lb/ton of alloy	Baghouse	0.99	0.99	0.7	No.16 Furnace alloy production	7,000			1	0.0003	0.6930	2.0	0.001005
003--08	no. 16 Fce.	Manganese	7439965	no	0.00E+00	lb/ton of wood	Baghouse	0.99	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.6930	0.0	0.000000
003--08	no. 16 Fce.	Mercury	7439976	no	3.95E-07	lb/ton of alloy	None	0	0.99	0	No.16 Furnace alloy production	7,000			0	0.0000	0.0000	0.0	0.000000
003--08	no. 16 Fce.	Mercury	7439976	no	0.00E+00	lb/ton of wood	None	0	0.99	0	No.16 furnace wood type materials	14,682			0	0.0000	0.0000	0.0	0.000000
003--08	no. 16 Fce.	Methane	74828	no	7.88E-01	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			55	0.0276	0.0000	55	0.027586
003--08	no. 16 Fce.	Methyl Chloroform (1,1,1-Trichloroethane)	71556	no	2.00E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000003
003--08	no. 16 Fce.	Methyl chloroform (1,1,1-Trichloroethane)	71556	no	3.22E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000085
003--08	no. 16 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	5.62E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000008
003--08	no. 16 Fce.	Methyl ethyl ketone (2-Butanone)	78933	no	3.90E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000102
003--08	no. 16 Fce.	Methyl hydrazine	60344	no	1.70E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000002
003--08	no. 16 Fce.	Methyl methacrylate	80626	no	2.00E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000003
003--08	no. 16 Fce.	Methyl tert butyl ether	1634044	no	3.50E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000005
003--08	no. 16 Fce.	Methylene chloride (dichloromethane)	75092	no	2.13E-04	lb/ton of alloy	None		0.99		No.16 Furnace alloy production	7,000			0	0.0000	0.0000	0	0.000007
003--08	no. 16 Fce.	hthalene	#N/A	no	1.12E-06	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	hthalene	#N/A	no	0.00E+00	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Nickel	7440020	no	1.40E-05	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No.16 Furnace alloy production	7,000			0	0.0000	0.8910	0.0	0.000014
003--08	no. 16 Fce.	Nickel	7440020	no	0.00E+00	lb/ton of wood	Baghouse	0.9	0.99	0.7	No.16 furnace wood type materials	14,682			0	0.0000	0.8910	0.0	0.000000
003--08	no. 16 Fce.	NOx	NO2	no	3.00E-02	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595			2	0.0011	0.0000	2	0.001139
003--08	no. 16 Fce.	NOx	NO2	no	1.35E-01	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682			20	0.0099	0.0000	20	0.009925
003--08	no. 16 Fce.	NOx	NO2	yes	26.63	lb/ton of alloy	None		0.99		No.16 Furnace production	7,000			1883	0.9414	0.0000	1883	0.941429
003--08	no. 16 Fce.	Pentachlorophenyl	87865	no	5.30E-07	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Phenanthrene	85018	no	2.70E-06	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Phenanthrene	85018	no	7.28E-05	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000019
003--08	no. 16 Fce.	Phenol	108952	no	1.60E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000002
003--08	no. 16 Fce.	Phenol	108952	no	5.30E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000139
003--08	no. 16 Fce.	Phosphorus	7723140	no	2.83E-03	lb/ton of alloy	Baghouse	0.9	0.99	0.7	No. 16 Furnace alloy production	7,000			0.6	0.00030	0.6930	2.0	0.000978
003--08	no. 16 Fce.	PM10	PM10	yes	4.17	lb/ton of alloy	Building	0.7	0.9999	0.99	No.16 Furnace production	7,000			8835	4.4174	0.6999	29442.6	14.721313
003--08	no. 16 Fce.	PM2.5	PM2.5	yes	3.09	lb/ton of alloy	Building	0.7	0.9999	0.99	No.16 Furnace production	7,000			6546	3.2728	0.6999	21813.7	10.906849
003--08	no. 16 Fce.	Polycyclic aromatic compounds	PAC	no	3.01E-05	lb/ton of alloy	None		0.99		No. 16 Furance alloy production	7,000			0	0.0001	0.0000	0	0.000105

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003--08	no. 16 Fce.	Polycyclic aromatic compounds	PAC	no	0.00E+00	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Polycyclic Organic Matter	250	no	3.01E-05	lb/ton of alloy	None		0.99		No. 16 Furance alloy production	7,000			0	0.0000	0.0000	0	0.000001
003--08	no. 16 Fce.	Polycyclic Organic Matter	250	no	0.00E+00	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000000
003--08	no. 16 Fce.	Propionaldehyde	123386	no	3.80E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000052
003--08	no. 16 Fce.	Propionaldehyde	123386	no	6.34E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0002	0.0000	0	0.000167
003--08	no. 16 Fce.	Selenium	7782492	no	2.60E-03	lb/ton of coal	Building	0	0.99	0	No.16 Furnace coal type materials	7,595			0.199	0.0001	0.0000	0.2	0.000100
003--08	no. 16 Fce.	Selenium	7782492	no	2.91E-05	lb/ton of wood	Building	0	0.99	0	No.16 furnace wood type materials	14,682			0	0.0002	0.0000	0.4	0.000212
003--08	no. 16 Fce.	SOx	SO2	yes	28.266	lb/ton of alloy	None		0.99		No.16 Furnace production	7,000			1999	0.9993	0.0000	1999	0.999303
003--08	no. 16 Fce.	Styrene	100425	no	2.50E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000003
003--08	no. 16 Fce.	Styrene	100425	no	1.98E-02	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	10	0.0052	0.0000	10	0.005193
003--08	no. 16 Fce.	Tetrachloroethylene	127184	no	4.30E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000006
003--08	no. 16 Fce.	Toluene	108883	no	2.40E-04	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000033
003--08	no. 16 Fce.	Toluene	108883	no	9.57E-03	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	5	0.0025	0.0000	5	0.002515
003--08	no. 16 Fce.	Trichloroethene (trichloroethylene)	79016	no	3.12E-04	lb/ton of wood	None		0.99		No.16 furnace wood type materials	14,682	Stack test Ratio	3.58	0	0.0001	0.0000	0	0.000082
003--08	no. 16 Fce.	TSP (Particulate)	PT	yes	5.95	lb/ton of alloy	Building	0.7	0.9999	0.99	No.16 Furnace production	7,000			12621	6.3106	0.6999	42060.9	21.030446
003--08	no. 16 Fce.	Vinyl acetate	108054	no	7.60E-06	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000001
003--08	no. 16 Fce.	VOC	VOC	yes	1.46	lb/ton of alloy	None		0.99		No.16 Furnace production	7,000			103	0.0516	0.0000	103	0.051616
003--08	no. 16 Fce.	Xylenes	1330207	no	3.70E-05	lb/ton of coal	None		0.99		No.16 Furnace coal type materials	7,595	Stack test Ratio	3.58	0	0.0000	0.0000	0	0.000005
003--09	metal pouring operations (casting/cooling)	PM10	PM10	yes	0.0327	lb/ton	Building	0.7	0.9999	None	Furnace production	171,730.00			1685	0.8425	0.6999	5615.6	2.807786
003--09	metal pouring operations (casting/cooling)	PM2.5	PM2.5	yes	0.0318	lb/ton	Building	0.7	0.9999	None	Furnace production	171,730.00			1639	0.8193	0.6999	5461.0	2.730507
003--09	metal pouring operations (casting/cooling)	TSP (Particulate)	PT	yes	0.043	lb/ton	Building	0.7	0.9999	None	Furnace production	171,730.00			2216	1.1079	0.6999	7384.4	3.692195
004--01	CX ball mill - ball mill (grinding)	PM10	PM10	yes	0.31	lb/ton	Baghouse	0.99	0.99		CX Ball Mill production	0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - conveyor to ball mill	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - elevator	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - product loading	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - raw material loading to skip	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - Screen box	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - skip dump to hopper	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - ball mill (grinding)	PM2.5	PM2.5	yes	0.31	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - conveyor to ball mill	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - elevator	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - raw material loading to skip	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - Screen box	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - skip dump to hopper	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - ball mill (grinding)	TSP (Particulate)	PT	yes	2.4	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - conveyor to ball mill	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - elevator	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - raw material loading to skip	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99	None		0			0	0.0000	0.9801	0.0	0.000000



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004--01	CX ball mill - Screen box	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - skip dump to hopper	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
004--01	CX ball mill - ball mill (grinding)	PM10	PM10	yes	0.31	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - conveyor to ball mill	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - elevator	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - product loading	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - raw material loading to skip	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - Screen box	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - skip dump to hopper	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - ball mill (grinding)	PM2.5	PM2.5	yes	0.31	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - conveyor to ball mill	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - elevator	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - raw material loading to skip	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - Screen box	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - skip dump to hopper	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - ball mill (grinding)	TSP (Particulate)	PT	yes	2.4	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - conveyor to ball mill	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - elevator	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - raw material loading to skip	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - Screen box	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--01	CX ball mill - skip dump to hopper	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		0			0	0.0000	0.6999	0.0	0.000000
004--02	impactor - C7P - elevator	Arsenic	7440382	no	3.15094E-07	lb/ton	Baghouse	0.99	0.99	None	C7P Impactor throughput	13,140			0	0.0000	0.9801	0.0	0.000001
004--02	impactor - C7P - product loading	Arsenic	7440382	no	3.15094E-07	lb/ton	Baghouse	0.99	0.99	None		13,140			0	0.0000	0.9801	0.0	0.000001
004--02	impactor - C7P - screen box	Arsenic	7440382	no	3.15094E-07	lb/ton	Baghouse	0.99	0.99	None		13,140			0	0.0000	0.9801	0.0	0.000001
004--02	impactor - C7P - dump to bin	Arsenic	7440382	no	3.15094E-07	lb/ton	Baghouse	0.99	0.99	None		13,140			0	0.0000	0.9801	0.0	0.000001
004--02	impactor - C7P - impactor(crushing)	Arsenic	7440382	no	1.31289E-06	lb/ton	Baghouse	0.99	0.99	None		13,140			0	0.0000	0.9801	0.0	0.000004
004--02	impactor - C7P - elevator	Chromium	7440473	no	5.11321E-06	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0006652	0.0000	0.9801	0.0	0.000017
004--02	impactor - C7P - product loading	Chromium	7440473	no	5.11321E-06	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0006652	0.0000	0.9801	0.0	0.000017
004--02	impactor - C7P - screen box	Chromium	7440473	no	5.11321E-06	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0006652	0.0000	0.9801	0.0	0.000017
004--02	impactor - C7P - dump to bin	Chromium	7440473	no	5.11321E-06	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0006652	0.0000	0.9801	0.0	0.000017
004--02	impactor - C7P - impactor(crushing)	Chromium	7440473	no	2.1305E-05	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0027715	0.0000	0.9801	0.1	0.000070
004--02	impactor - C7P - elevator	Lead	7439921	no	5.70E-07	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000002
004--02	impactor - C7P - product loading	Lead	7439921	no	5.70E-07	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000002
004--02	impactor - C7P - screen box	Lead	7439921	no	5.70E-07	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000002
004--02	impactor - C7P - dump to bin	Lead	7439921	no	5.70E-07	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000002
004--02	impactor - C7P - impactor(crushing)	Lead	7439921	no	2.37E-06	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000008
004--02	impactor - C7P - elevator	Manganese	7439965	no	2.64151E-05	lb/ton	Baghouse	0.99	0.99	None		13,140			0	0.0000	0.9801	0.2	0.000086
004--02	impactor - C7P - product loading	Manganese	7439965	no	2.64151E-05	lb/ton	Baghouse	0.99	0.99	None		13,140			0	0.0000	0.9801	0.2	0.000086



Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--02	impactor - C7P - screen box	Manganese	7439965	no	2.64151E-05	lb/ton	Baghouse	0.99	0.99	None		13,140			0	0.0000	0.9801	0.2	0.000086
004--02	impactor - C7P - dump to bin	Manganese	7439965	no	2.64151E-05	lb/ton	Baghouse	0.99	0.99	None		13,140			0	0.0000	0.9801	0.2	0.000086
004--02	impactor - C7P - impactor(crushing)	Manganese	7439965	no	0.000110063	lb/ton	Baghouse	0.99	0.99	None		13,140			0	0.0000	0.9801	0.7	0.000360
004--02	impactor - C7P - elevator	Mercury	7439976	no	5.40E-07	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000002
004--02	impactor - C7P - product loading	Mercury	7439976	no	5.40E-07	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000002
004--02	impactor - C7P - screen box	Mercury	7439976	no	5.40E-07	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000002
004--02	impactor - C7P - dump to bin	Mercury	7439976	no	5.40E-07	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000002
004--02	impactor - C7P - impactor(crushing)	Mercury	7439976	no	2.25E-06	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000007
004--02	impactor - C7P - elevator	Nickel	7440020	no	7.25E-06	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000024
004--02	impactor - C7P - product loading	Nickel	7440020	no	7.25E-06	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000024
004--02	impactor - C7P - screen box	Nickel	7440020	no	7.25E-06	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000024
004--02	impactor - C7P - dump to bin	Nickel	7440020	no	7.25E-06	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000024
004--02	impactor - C7P - impactor(crushing)	Nickel	7440020	no	3.02E-05	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.2	0.000099
004--02	impactor - C7P - elevator	Phosphorus	7723140	no	1.11E-05	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.1	0.000036
004--02	impactor - C7P - product loading	Phosphorus	7723140	no	1.11E-05	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.1	0.000036
004--02	impactor - C7P - screen box	Phosphorus	7723140	no	5.70E-07	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.0	0.000002
004--02	impactor - C7P - dump to bin	Phosphorus	7723140	no	1.11E-05	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.1	0.000036
004--02	impactor - C7P - impactor(crushing)	Phosphorus	7723140	no	4.64E-05	lb/ton	Baghouse	0.99	0.99	None		13,140			0.0	0.00000	0.9801	0.3	0.000152
004--02	impactor - C7P - elevator	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99	None		13,140			8	0.0039	0.9801	392.2	0.196110
004--02	impactor - C7P - product loading	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99	None		13,140			8	0.0039	0.9801	392.2	0.196110
004--02	impactor - C7P - screen box	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99	None		13,140			8	0.0039	0.9801	392.2	0.196110
004--02	impactor - C7P - dump to bin	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99	None		13,140			8	0.0039	0.9801	392.2	0.196110
004--02	impactor - C7P - impactor(crushing)	PM10	PM10	yes	0.05	lb/ton	Baghouse	0.99	0.99	None		13,140			7	0.0033	0.9801	326.8	0.163425
004--02	impactor - C7P - elevator	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99	None		13,140			5	0.0023	0.9801	235.3	0.117666
004--02	impactor - C7P - impactor(crushing)	PM2.5	PM2.5	yes	0.05	lb/ton	Baghouse	0.99	0.99	None		13,140			7	0.0033	0.9801	326.8	0.163425
004--02	impactor - C7P - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99	None		13,140			5	0.0023	0.9801	235.3	0.117666
004--02	impactor - C7P - screen box	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99	None		13,140			5	0.0023	0.9801	235.3	0.117666
004--02	impactor - C7P - dump to bin	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99	None		13,140			5	0.0023	0.9801	235.3	0.117666
004--02	impactor - C7P - elevator	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99	None		13,140			16	0.0078	0.9801	784.4	0.392219
004--02	impactor - C7P - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99	None		13,140			16	0.0078	0.9801	784.4	0.392219
004--02	impactor - C7P - screen box	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99	None		13,140			16	0.0078	0.9801	784.4	0.392219
004--02	impactor - C7P - dump to bin	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99	None		13,140			16	0.0078	0.9801	784.4	0.392219
004--02	impactor - C7P - impactor(crushing)	TSP (Particulate)	PT	yes	0.5	lb/ton	Baghouse	0.99	0.99	None		13,140			65	0.0325	0.9801	3268.5	1.634246
004--02	impactor - C7P - dump to bin	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99		13,140			0	0.0000	0.6999	0.0	0.000000
004--02	impactor - C7P - elevator	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99		13,140			0	0.0000	0.6999	0.0	0.000000
004--02	impactor - C7P - impactor(crushing)	Arsenic	7440382	no	1.31289E-06	lb/ton	Building	0.7	0.9999	0.99		13,140			0	0.0000	0.6999	0.0	0.000000
004--02	impactor - C7P - product loading	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99		13,140			0	0.0000	0.6999	0.0	0.000000
004--02	impactor - C7P - screen box	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99		13,140			0	0.0000	0.6999	0.0	0.000000
004--02	impactor - C7P - dump to bin	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99		13,140			0.00	0.0000	0.6999	0.0	0.000000
004--02	impactor - C7P - elevator	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99		13,140			0.00	0.0000	0.6999	0.0	0.000000

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--02	impactor - C7P - impactor(crushing)	Chromium	7440473	no	2.1305E-05	lb/ton	Building	0.7	0.9999	0.99		13,140			0.00	0.0000	0.6999	0.0	0.000001
004--02	impactor - C7P - product loading	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99		13,140			0.00	0.0000	0.6999	0.0	0.000000
004--02	impactor - C7P - screen box	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99		13,140			0.00	0.0000	0.6999	0.0	0.000000
004--02	impactor - C7P - dump to bin	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - elevator	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - impactor(crushing)	Lead	7439921	no	2.37E-06	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - product loading	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - screen box	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - dump to bin	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99		13,140			0.00	0.0000	0.6999	0.0	0.000002
004--02	impactor - C7P - elevator	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99		13,140			0.00	0.0000	0.6999	0.0	0.000002
004--02	impactor - C7P - impactor(crushing)	Manganese	7439965	no	0.000110063	lb/ton	Building	0.7	0.9999	0.99		13,140			0.00	0.0000	0.6999	0.0	0.000007
004--02	impactor - C7P - product loading	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99		13,140			0.00	0.0000	0.6999	0.0	0.000002
004--02	impactor - C7P - screen box	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99		13,140			0.00	0.0000	0.6999	0.0	0.000002
004--02	impactor - C7P - dump to bin	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - elevator	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - impactor(crushing)	Mercury	7439976	no	2.25E-06	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - product loading	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - screen box	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - dump to bin	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - elevator	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - impactor(crushing)	Nickel	7440020	no	3.02E-05	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000002
004--02	impactor - C7P - product loading	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - screen box	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000000
004--02	impactor - C7P - dump to bin	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000001
004--02	impactor - C7P - elevator	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000001
004--02	impactor - C7P - impactor(crushing)	Phosphorus	7723140	no	4.64E-05	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000003
004--02	impactor - C7P - product loading	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000001
004--02	impactor - C7P - screen box	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99		13,140			0.0	0.00000	0.6999	0.0	0.000001
004--02	impactor - C7P - dump to bin	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		13,140			2	0.0012	0.6999	7.9	0.003941
004--02	impactor - C7P - elevator	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		13,140			2	0.0012	0.6999	7.9	0.003941
004--02	impactor - C7P - impactor(crushing)	PM10	PM10	yes	0.05	lb/ton	Building	0.7	0.9999	0.99		13,140			2	0.0010	0.6999	6.6	0.003284
004--02	impactor - C7P - product loading	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		13,140			2	0.0012	0.6999	7.9	0.003941
004--02	impactor - C7P - screen box	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		13,140			2	0.0012	0.6999	7.9	0.003941
004--02	impactor - C7P - screen box	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		13,140			1	0.0007	0.6999	4.7	0.002365
004--02	impactor - C7P - elevator	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		13,140			1	0.0007	0.6999	4.7	0.002365
004--02	impactor - C7P - impactor(crushing)	PM2.5	PM2.5	yes	0.05	lb/ton	Building	0.7	0.9999	0.99		13,140			2	0.0010	0.6999	6.6	0.003284
004--02	impactor - C7P - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		13,140			1	0.0007	0.6999	4.7	0.002365
004--02	impactor - C7P - screen box	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		13,140			1	0.0007	0.6999	4.7	0.002365
004--02	impactor - C7P - dump to bin	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		13,140			5	0.0024	0.6999	15.8	0.007882
004--02	impactor - C7P - elevator	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		13,140			5	0.0024	0.6999	15.8	0.007882

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--02	impactor - C7P - impactor(crushing)	TSP (Particulate)	PT	yes	0.5	lb/ton	Building	0.7	0.9999	0.99		13,140			20	0.0099	0.6999	65.7	0.032842
004--02	impactor - C7P - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		13,140			5	0.0024	0.6999	15.8	0.007882
004--02	impactor - C7P - screen box	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		13,140			5	0.0024	0.6999	15.8	0.007882
004--03	C7P multistage crusher - #1 gyro crusher	Arsenic	7440382	no	0	lb/ton	Baghouse	0.9	0.99	None	C7P Multistage crusher throughput	438,000			0	0.0000	0.8910	0.0	0.00
004--03	C7P multistage crusher - #2 gyro crusher	Arsenic	7440382	no	0	lb/ton	Baghouse	0.9	0.99	None		438,000			0	0.0000	0.8910	0.0	0.00
004--03	C7P multistage crusher - conveyor	Arsenic	7440382	no	0	lb/ton	Baghouse	0.9	0.99	None		438,000			0	0.0000	0.8910	0.0	0.00
004--03	C7P multistage crusher - dump to bin	Arsenic	7440382	no	0	lb/ton	Baghouse	0.9	0.99	None		438,000			0	0.0000	0.8910	0.0	0.00
004--03	C7P multistage crusher - elevator	Arsenic	7440382	no	0	lb/ton	Baghouse	0.9	0.99	None		438,000			0	0.0000	0.8910	0.0	0.00
004--03	C7P multistage crusher - elevator	Arsenic	7440382	no	0	lb/ton	Baghouse	0.9	0.99	None		438,000			0	0.0000	0.8910	0.0	0.00
004--03	C7P multistage crusher - primary crusher	Arsenic	7440382	no	0	lb/ton	Baghouse	0.9	0.99	None		438,000			0	0.0000	0.8910	0.0	0.00
004--03	C7P multistage crusher - product loading	Arsenic	7440382	no	0	lb/ton	Baghouse	0.9	0.99	None		438,000			0	0.0000	0.8910	0.0	0.00
004--03	C7P multistage crusher - screen box	Arsenic	7440382	no	0	lb/ton	Baghouse	0.9	0.99	None		438,000			0	0.0000	0.8910	0.0	0.00
004--03	C7P multistage crusher - Total	Arsenic	7440382	no	1.43E-06	lb/ton	Baghouse	0.9	0.99	None		438,000			0.63	0.00031	0.8910	5.8	0.00
004--03	C7P multistage crusher - #1 gyro crusher	Chromium	7440473	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - #2 gyro crusher	Chromium	7440473	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - conveyor	Chromium	7440473	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - dump to bin	Chromium	7440473	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - elevator	Chromium	7440473	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - elevator	Chromium	7440473	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - primary crusher	Chromium	7440473	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - product loading	Chromium	7440473	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - screen box	Chromium	7440473	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - Total	Chromium	7440473	no	2.32E-05	lb/ton	Baghouse	0.99	0.99	None		438,000			10	0.0051	0.9801	511.3	0.26
004--03	C7P multistage crusher - Total	Lead	7439921	no	2.59E-06	lb/ton	Baghouse	0.9	0.99	None		438,000			1.133794	0.00056690	0.8910	11.3	0.01
004--03	C7P multistage crusher - #1 gyro crusher	Manganese	7439965	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - #2 gyro crusher	Manganese	7439965	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - conveyor	Manganese	7439965	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - dump to bin	Manganese	7439965	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - elevator	Manganese	7439965	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - elevator	Manganese	7439965	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - primary crusher	Manganese	7439965	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - product loading	Manganese	7439965	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - screen box	Manganese	7439965	no	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - Total	Manganese	7439965	no	0.00012	lb/ton	Baghouse	0.99	0.99	None		438,000			53	0.0263	0.9801	2641.2	1.32
004--03	C7P multistage crusher - Total	Mercury	7439976	no	2.45E-06	lb/ton	Baghouse	0.9	0.99	None		438,000			1.1	0.00054	0.8910	10.7	0.01
004--03	C7P multistage crusher - Total	Nickel	7440020	no	3.29E-05	lb/ton	Baghouse	0.99	0.99	None		438,000			14.4	0.00721	0.9801	1441.6	0.72
004--03	C7P multistage crusher - Total	Phosphorus	7723140	no	5.06E-05	lb/ton	Baghouse	0.99	0.99	None		438,000			22.2	0.01108	0.9801	2215.0	1.11
004--03	C7P multistage crusher - #1 gyro crusher	PM10	PM10	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - #2 gyro crusher	PM10	PM10	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - conveyor	PM10	PM10	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00

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004--03	C7P multistage crusher - dump to bin	PM10	PM10	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - elevator	PM10	PM10	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - elevator	PM10	PM10	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - primary crusher	PM10	PM10	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - product loading	PM10	PM10	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - screen box	PM10	PM10	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - Total	PM10	PM10	yes	0.27	lb/ton	Baghouse	0.99	0.99	None		438,000			119386	59.6931	0.9801	5999310.8	2,999.66
004--03	C7P multistage crusher - #1 gyro crusher	PM2.5	PM2.5	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - #2 gyro crusher	PM2.5	PM2.5	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - conveyor	PM2.5	PM2.5	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - dump to bin	PM2.5	PM2.5	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - elevator	PM2.5	PM2.5	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - elevator	PM2.5	PM2.5	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - primary crusher	PM2.5	PM2.5	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - product loading	PM2.5	PM2.5	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - screen box	PM2.5	PM2.5	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - Total	PM2.5	PM2.5	yes	0.16	lb/ton	Baghouse	0.99	0.99	None		438,000			71632	35.8159	0.9801	3599586.5	1,799.79
004--03	C7P multistage crusher - #1 gyro crusher	TSP (Particulate)	PT	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - #2 gyro crusher	TSP (Particulate)	PT	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - conveyor	TSP (Particulate)	PT	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - dump to bin	TSP (Particulate)	PT	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - elevator	TSP (Particulate)	PT	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - elevator	TSP (Particulate)	PT	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - primary crusher	TSP (Particulate)	PT	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - product loading	TSP (Particulate)	PT	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - screen box	TSP (Particulate)	PT	yes	0	lb/ton	Baghouse	0.99	0.99	None		438,000			0	0.0000	0.9801	0.0	0.00
004--03	C7P multistage crusher - Total	TSP (Particulate)	PT	yes	0.55	lb/ton	Baghouse	0.99	0.99	None		438,000			238773	119.3863	0.9801	11998621.7	5,999.31
004--03	C7P multistage crusher - #1 gyro crusher	Arsenic	7440382	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - #2 gyro crusher	Arsenic	7440382	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - conveyor	Arsenic	7440382	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - dump to bin	Arsenic	7440382	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - elevator	Arsenic	7440382	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - elevator	Arsenic	7440382	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - primary crusher	Arsenic	7440382	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - product loading	Arsenic	7440382	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - screen box	Arsenic	7440382	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - Total	Arsenic	7440382	no	1.43E-06	lb/ton	Building	0.7	0.9999	0.99		438,000			0.19	0.0001	0.6999	0.6	0.00
004--03	C7P multistage crusher - #1 gyro crusher	Chromium	7440473	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - #2 gyro crusher	Chromium	7440473	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - conveyor	Chromium	7440473	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00

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004--03	C7P multistage crusher - dump to bin	Chromium	7440473	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - elevator	Chromium	7440473	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - elevator	Chromium	7440473	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - primary crusher	Chromium	7440473	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - product loading	Chromium	7440473	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - screen box	Chromium	7440473	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - Total	Chromium	7440473	no	2.32E-05	lb/ton	Building	0.7	0.9999	0.99		438,000			3.05	0.0015	0.6999	10.2	0.01
004--03	C7P multistage crusher - Total	Lead	7439921	no	2.59E-06	lb/ton	Building	0.7	0.9999	0.99		438,000			0.340138	0.00017007	0.6999	1.1	0.00
004--03	C7P multistage crusher - #1 gyro crusher	Manganese	7439965	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - #2 gyro crusher	Manganese	7439965	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - conveyor	Manganese	7439965	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - dump to bin	Manganese	7439965	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - elevator	Manganese	7439965	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - elevator	Manganese	7439965	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - primary crusher	Manganese	7439965	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - product loading	Manganese	7439965	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - screen box	Manganese	7439965	no	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - Total	Manganese	7439965	no	0.00012	lb/ton	Building	0.7	0.9999	0.99		438,000			15.77	0.0079	0.6999	52.5	0.03
004--03	C7P multistage crusher - Total	Mercury	7439976	no	2.45E-06	lb/ton	Building	0.7	0.9999	0.99		438,000			0.32	0.00016	0.6999	1.1	0.00
004--03	C7P multistage crusher - Total	Nickel	7440020	no	3.29E-05	lb/ton	Building	0.7	0.9999	0.99		438,000			4.32	0.00216	0.6999	14.4	0.01
004--03	C7P multistage crusher - Total	Phosphorus	7723140	no	5.06E-05	lb/ton	Building	0.7	0.9999	0.99		438,000			6.6	0.00332	0.6999	22.1	0.01
004--03	C7P multistage crusher - #1 gyro crusher	PM10	PM10	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - #2 gyro crusher	PM10	PM10	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - conveyor	PM10	PM10	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - dump to bin	PM10	PM10	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - elevator	PM10	PM10	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - elevator	PM10	PM10	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - primary crusher	PM10	PM10	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - product loading	PM10	PM10	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - screen box	PM10	PM10	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - Total	PM10	PM10	yes	0.27	lb/ton	Building	0.7	0.9999	0.99		438,000			35815.89	17.9079	0.6999	119358.4	59.68
004--03	C7P multistage crusher - #1 gyro crusher	PM2.5	PM2.5	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - #2 gyro crusher	PM2.5	PM2.5	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - conveyor	PM2.5	PM2.5	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - dump to bin	PM2.5	PM2.5	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - elevator	PM2.5	PM2.5	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - elevator	PM2.5	PM2.5	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - primary crusher	PM2.5	PM2.5	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - product loading	PM2.5	PM2.5	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - screen box	PM2.5	PM2.5	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--03	C7P multistage crusher - Total	PM2.5	PM2.5	yes	0.16	lb/ton	Building	0.7	0.9999	0.99		438,000			21489.53	10.7448	0.6999	71615.1	35.81
004--03	C7P multistage crusher - #1 gyro crusher	TSP (Particulate)	PT	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - #2 gyro crusher	TSP (Particulate)	PT	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - conveyor	TSP (Particulate)	PT	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - dump to bin	TSP (Particulate)	PT	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - elevator	TSP (Particulate)	PT	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - elevator	TSP (Particulate)	PT	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - primary crusher	TSP (Particulate)	PT	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - product loading	TSP (Particulate)	PT	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - screen box	TSP (Particulate)	PT	yes	0	lb/ton	Building	0.7	0.9999	0.99		438,000			0.00	0.0000	0.6999	0.0	0.00
004--03	C7P multistage crusher - Total	TSP (Particulate)	PT	yes	0.55	lb/ton	Building	0.7	0.9999	0.99		438,000			71631.77	35.8159	0.6999	238716.9	119.36
004--04	C6F sizing and cleaning - abated loading to sizing table	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99	None	C6F Sizing/Cleaning throughput	109,500			65	0.0325	0.9801	3268.5	1.634246
004--04	C6F sizing and cleaning - abated loading to sizing table	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99	None		109,500			65	0.0325	0.9801	3268.5	1.634246
004--04	C6F sizing and cleaning - cleaning table (conveying)	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99	None		109,500			65	0.0325	0.9801	3268.5	1.634246
004--04	C6F sizing and cleaning - product loading	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99	None		109,500			65	0.0325	0.9801	3268.5	1.634246
004--04	C6F sizing and cleaning - screening	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99	None		109,500			65	0.0325	0.9801	3268.5	1.634246
004--04	C6F sizing and cleaning - abated loading to sizing table	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99	None		109,500			39	0.0195	0.9801	1961.1	0.980548
004--04	C6F sizing and cleaning - abated loading to sizing table	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99	None		109,500			39	0.0195	0.9801	1961.1	0.980548
004--04	C6F sizing and cleaning - cleaning table (conveying)	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99	None		109,500			39	0.0195	0.9801	1961.1	0.980548
004--04	C6F sizing and cleaning - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99	None		109,500			39	0.0195	0.9801	1961.1	0.980548
004--04	C6F sizing and cleaning - screening	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99	None		109,500			39	0.0195	0.9801	1961.1	0.980548
004--04	C6F sizing and cleaning - abated loading to sizing table	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99	None		109,500			130	0.0650	0.9801	6537.0	3.268492
004--04	C6F sizing and cleaning - abated loading to sizing table	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99	None		109,500			130	0.0650	0.9801	6537.0	3.268492
004--04	C6F sizing and cleaning - cleaning table (conveying)	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99	None		109,500			130	0.0650	0.9801	6537.0	3.268492
004--04	C6F sizing and cleaning - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99	None		109,500			130	0.0650	0.9801	6537.0	3.268492
004--04	C6F sizing and cleaning - screening	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99	None		109,500			130	0.0650	0.9801	6537.0	3.268492
004--04	C6F sizing and cleaning - cleaning table (conveying)	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		109,500			19.71	0.0099	0.6999	65.7	0.032842
004--04	C6F sizing and cleaning - product loading	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		109,500			19.71	0.0099	0.6999	65.7	0.032842
004--04	C6F sizing and cleaning - screening	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		109,500			19.71	0.0099	0.6999	65.7	0.032842
004--04	C6F sizing and cleaning - sleding (primary crushing)	PM10	PM10	yes	0.05	lb/ton	None					109,500			5475	2.7375	0.0000	5475	2.737500
004--04	C6F sizing and cleaning - unabated: raw product unloading	PM10	PM10	yes	0.06	lb/ton	None					109,500			6570	3.2850	0.0000	6570	3.285000
004--04	C6F sizing and cleaning - cleaning table (conveying)	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		109,500			11.83	0.0059	0.6999	39.4	0.019705
004--04	C6F sizing and cleaning - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		109,500			11.83	0.0059	0.6999	39.4	0.019705
004--04	C6F sizing and cleaning - screening	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		109,500			11.83	0.0059	0.6999	39.4	0.019705
004--04	C6F sizing and cleaning - sleding (primary crushing)	PM2.5	PM2.5	yes	0.05	lb/ton	None					109,500			5475	2.7375	0.0000	5475	2.737500
004--04	C6F sizing and cleaning - unabated: raw product unloading	PM2.5	PM2.5	yes	0.036	lb/ton	None					109,500			3942	1.9710	0.0000	3942	1.971000
004--04	C6F sizing and cleaning - cleaning table (conveying)	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		109,500			39.42	0.0197	0.6999	131.4	0.065685
004--04	C6F sizing and cleaning - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		109,500			39.42	0.0197	0.6999	131.4	0.065685
004--04	C6F sizing and cleaning - screening	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		109,500			39.42	0.0197	0.6999	131.4	0.065685
004--04	C6F sizing and cleaning - sleding (primary crushing)	TSP (Particulate)	PT	yes	0.5	lb/ton	None					109,500			54750	27.3750	0.0000	54750	27.375000

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--04	C6F sizing and cleaning - unabated: raw product unloading	TSP (Particulate)	PT	yes	0.12	lb/ton	None					109,500			13140	6.5700	0.0000	13140	6.570000
004--05	C3P multistage crusher - conveyor	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	0.1	0.00
004--05	C3P multistage crusher - conveyor	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	0.1	0.00
004--05	C3P multistage crusher - conveyor	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	0.1	0.00
004--05	C3P multistage crusher - conveyor	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	0.1	0.00
004--05	C3P multistage crusher - dump to bin	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	0.1	0.00
004--05	C3P multistage crusher - dump to bin	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	0.1	0.00
004--05	C3P multistage crusher - gyro crusher	Arsenic	7440382	no	3.15094E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	0.7	0.00
004--05	C3P multistage crusher - primary crusher	Arsenic	7440382	no	1.31289E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	0.3	0.00
004--05	C3P multistage crusher - product loading	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	0.1	0.00
004--05	C3P multistage crusher - product loading to conveyor	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	0.1	0.00
004--05	C3P multistage crusher - screen box	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	0.1	0.00
004--05	C3P multistage crusher - screen box	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	0.1	0.00
004--05	C3P multistage crusher - vibrator	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	0.1	0.00
004--05	C3P multistage crusher - conveyor	Chromium	7440473	no	5.11321E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	1.11417	0.00
004--05	C3P multistage crusher - conveyor	Chromium	7440473	no	5.11321E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	1.11417	0.00
004--05	C3P multistage crusher - conveyor	Chromium	7440473	no	5.11321E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	1.11417	0.00
004--05	C3P multistage crusher - dump to bin	Chromium	7440473	no	5.11321E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	1.11417	0.00
004--05	C3P multistage crusher - dump to bin	Chromium	7440473	no	5.11321E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	1.11417	0.00
004--05	C3P multistage crusher - gyro crusher	Chromium	7440473	no	5.11321E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0001	0.9801	11.14165	0.01
004--05	C3P multistage crusher - primary crusher	Chromium	7440473	no	2.1305E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	4.64236	0.00
004--05	C3P multistage crusher - product loading	Chromium	7440473	no	5.11321E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	1.11417	0.00
004--05	C3P multistage crusher - product loading to conveyor	Chromium	7440473	no	5.11321E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	1.11417	0.00
004--05	C3P multistage crusher - screen box	Chromium	7440473	no	5.11321E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	1.11417	0.00
004--05	C3P multistage crusher - screen box	Chromium	7440473	no	5.11321E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	1.11417	0.00
004--05	C3P multistage crusher - vibrator	Chromium	7440473	no	5.11321E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0000	0.9801	1.11417	0.00
004--05	C3P multistage crusher - conveyor	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - conveyor	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - conveyor	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - conveyor	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - dump to bin	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - dump to bin	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - gyro crusher	Lead	7439921	no	5.70E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00001	0.9801	1.2	0.00
004--05	C3P multistage crusher - primary crusher	Lead	7439921	no	2.37E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00001	0.9801	0.5	0.00
004--05	C3P multistage crusher - product loading	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - product loading to conveyor	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - screen box	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - screen box	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - vibrator	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--05	C3P multistage crusher - conveyor	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0001	0.9801	5.75584	0.00
004--05	C3P multistage crusher - conveyor	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0001	0.9801	5.75584	0.00
004--05	C3P multistage crusher - conveyor	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0001	0.9801	5.75584	0.00
004--05	C3P multistage crusher - conveyor	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0001	0.9801	5.75584	0.00
004--05	C3P multistage crusher - dump to bin	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0001	0.9801	5.75584	0.00
004--05	C3P multistage crusher - dump to bin	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0001	0.9801	5.75584	0.00
004--05	C3P multistage crusher - gyro crusher	Manganese	7439965	no	0.000264151	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			1	0.0006	0.9801	57.55836	0.03
004--05	C3P multistage crusher - primary crusher	Manganese	7439965	no	0.000110063	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0002	0.9801	23.98265	0.01
004--05	C3P multistage crusher - product loading	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0001	0.9801	5.75584	0.00
004--05	C3P multistage crusher - product loading to conveyor	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0001	0.9801	5.75584	0.00
004--05	C3P multistage crusher - screen box	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0001	0.9801	5.75584	0.00
004--05	C3P multistage crusher - screen box	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0001	0.9801	5.75584	0.00
004--05	C3P multistage crusher - vibrator	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0	0.0001	0.9801	5.75584	0.00
004--05	C3P multistage crusher - conveyor	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - conveyor	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - conveyor	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - conveyor	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - dump to bin	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - dump to bin	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - gyro crusher	Mercury	7439976	no	5.40E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00001	0.9801	1.2	0.00
004--05	C3P multistage crusher - primary crusher	Mercury	7439976	no	2.25E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.5	0.00
004--05	C3P multistage crusher - product loading	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - product loading to conveyor	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - screen box	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - screen box	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - vibrator	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.9801	0.1	0.00
004--05	C3P multistage crusher - conveyor	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	1.6	0.00
004--05	C3P multistage crusher - conveyor	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	1.6	0.00
004--05	C3P multistage crusher - conveyor	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	1.6	0.00
004--05	C3P multistage crusher - conveyor	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	1.6	0.00
004--05	C3P multistage crusher - dump to bin	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	1.6	0.00
004--05	C3P multistage crusher - dump to bin	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	1.6	0.00
004--05	C3P multistage crusher - gyro crusher	Nickel	7440020	no	7.25E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.3	0.00016	0.9801	15.8	0.01
004--05	C3P multistage crusher - primary crusher	Nickel	7440020	no	3.02E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.1	0.00007	0.9801	6.6	0.00
004--05	C3P multistage crusher - product loading	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	1.6	0.00
004--05	C3P multistage crusher - product loading to conveyor	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	1.6	0.00
004--05	C3P multistage crusher - screen box	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	1.6	0.00
004--05	C3P multistage crusher - screen box	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	1.6	0.00
004--05	C3P multistage crusher - vibrator	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	1.6	0.00
004--05	C3P multistage crusher - conveyor	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	2.4	0.00



Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--05	C3P multistage crusher - conveyor	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	2.4	0.00
004--05	C3P multistage crusher - conveyor	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	2.4	0.00
004--05	C3P multistage crusher - conveyor	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	2.4	0.00
004--05	C3P multistage crusher - dump to bin	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	2.4	0.00
004--05	C3P multistage crusher - dump to bin	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	2.4	0.00
004--05	C3P multistage crusher - gyro crusher	Phosphorus	7723140	no	1.11E-04	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.5	0.00024	0.9801	24.3	0.01
004--05	C3P multistage crusher - primary crusher	Phosphorus	7723140	no	4.64E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.2	0.00010	0.9801	10.1	0.01
004--05	C3P multistage crusher - product loading	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	2.4	0.00
004--05	C3P multistage crusher - product loading to conveyor	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	2.4	0.00
004--05	C3P multistage crusher - screen box	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	2.4	0.00
004--05	C3P multistage crusher - screen box	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	2.4	0.00
004--05	C3P multistage crusher - vibrator	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.9801	2.4	0.00
004--05	C3P multistage crusher - conveyor	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			260	0.1301	0.9801	13074.0	6.54
004--05	C3P multistage crusher - conveyor	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			260	0.1301	0.9801	13074.0	6.54
004--05	C3P multistage crusher - conveyor	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			260	0.1301	0.9801	13074.0	6.54
004--05	C3P multistage crusher - conveyor	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			260	0.1301	0.9801	13074.0	6.54
004--05	C3P multistage crusher - dump to bin	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			260	0.1301	0.9801	13074.0	6.54
004--05	C3P multistage crusher - dump to bin	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			260	0.1301	0.9801	13074.0	6.54
004--05	C3P multistage crusher - gyro crusher	PM10	PM10	yes	0.6	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			2602	1.3009	0.9801	130739.7	65.37
004--05	C3P multistage crusher - primary crusher	PM10	PM10	yes	0.05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			217	0.1084	0.9801	10895.0	5.45
004--05	C3P multistage crusher - product loading	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			260	0.1301	0.9801	13074.0	6.54
004--05	C3P multistage crusher - product loading to conveyor	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			260	0.1301	0.9801	13074.0	6.54
004--05	C3P multistage crusher - screen box	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			260	0.1301	0.9801	13074.0	6.54
004--05	C3P multistage crusher - screen box	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			260	0.1301	0.9801	13074.0	6.54
004--05	C3P multistage crusher - vibrator	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			260	0.1301	0.9801	13074.0	6.54
004--05	C3P multistage crusher - conveyor	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			156	0.0781	0.9801	7844.4	3.92
004--05	C3P multistage crusher - conveyor	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			156	0.0781	0.9801	7844.4	3.92
004--05	C3P multistage crusher - conveyor	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			156	0.0781	0.9801	7844.4	3.92
004--05	C3P multistage crusher - conveyor	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			156	0.0781	0.9801	7844.4	3.92
004--05	C3P multistage crusher - dump to bin	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			156	0.0781	0.9801	7844.4	3.92
004--05	C3P multistage crusher - dump to bin	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			156	0.0781	0.9801	7844.4	3.92
004--05	C3P multistage crusher - gyro crusher	PM2.5	PM2.5	yes	0.36	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			1561	0.7805	0.9801	78443.8	39.22
004--05	C3P multistage crusher - primary crusher	PM2.5	PM2.5	yes	0.05	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			217	0.1084	0.9801	10895.0	5.45
004--05	C3P multistage crusher - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			156	0.0781	0.9801	7844.4	3.92
004--05	C3P multistage crusher - product loading to conveyor	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			156	0.0781	0.9801	7844.4	3.92
004--05	C3P multistage crusher - screen box	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			156	0.0781	0.9801	7844.4	3.92
004--05	C3P multistage crusher - screen box	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			156	0.0781	0.9801	7844.4	3.92
004--05	C3P multistage crusher - vibrator	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			156	0.0781	0.9801	7844.4	3.92
004--05	C3P multistage crusher - conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			520	0.2602	0.9801	26147.9	13.07
004--05	C3P multistage crusher - conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			520	0.2602	0.9801	26147.9	13.07

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--05	C3P multistage crusher - conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			520	0.2602	0.9801	26147.9	13.07
004--05	C3P multistage crusher - conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			520	0.2602	0.9801	26147.9	13.07
004--05	C3P multistage crusher - dump to bin	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			520	0.2602	0.9801	26147.9	13.07
004--05	C3P multistage crusher - dump to bin	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			520	0.2602	0.9801	26147.9	13.07
004--05	C3P multistage crusher - gyro crusher	TSP (Particulate)	PT	yes	1.2	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			5203	2.6017	0.9801	261479.4	130.74
004--05	C3P multistage crusher - primary crusher	TSP (Particulate)	PT	yes	0.5	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			2168	1.0841	0.9801	108949.7	54.47
004--05	C3P multistage crusher - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			520	0.2602	0.9801	26147.9	13.07
004--05	C3P multistage crusher - product loading to conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			520	0.2602	0.9801	26147.9	13.07
004--05	C3P multistage crusher - screen box	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			520	0.2602	0.9801	26147.9	13.07
004--05	C3P multistage crusher - screen box	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			520	0.2602	0.9801	26147.9	13.07
004--05	C3P multistage crusher - vibrator	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P Multistage crusher throughput	438,000			520	0.2602	0.9801	26147.9	13.07
004--05	C3P multistage crusher - conveyor	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.00	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.00	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.00	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.00	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - dump to bin	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.00	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - dump to bin	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.00	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - gyro crusher	Arsenic	7440382	no	3.15094E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.00	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - primary crusher	Arsenic	7440382	no	1.31289E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.00	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - product loading	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.00	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - product loading to conveyor	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.00	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - screen box	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.00	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - screen box	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.00	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - vibrator	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.00	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.01	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.01	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.01	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.01	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - dump to bin	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.01	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - dump to bin	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.01	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - gyro crusher	Chromium	7440473	no	5.11321E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.07	0.0000	0.6999	0.2	0.00
004--05	C3P multistage crusher - primary crusher	Chromium	7440473	no	2.1305E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.03	0.0000	0.6999	0.1	0.00
004--05	C3P multistage crusher - product loading	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.01	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - product loading to conveyor	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.01	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - screen box	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.01	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - screen box	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.01	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - vibrator	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.01	0.0000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--05	C3P multistage crusher - conveyor	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - dump to bin	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - dump to bin	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - gyro crusher	Lead	7439921	no	5.70E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - primary crusher	Lead	7439921	no	2.37E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - product loading	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - product loading to conveyor	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - screen box	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - screen box	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - vibrator	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.03	0.0000	0.6999	0.1	0.00
004--05	C3P multistage crusher - conveyor	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.03	0.0000	0.6999	0.1	0.00
004--05	C3P multistage crusher - conveyor	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.03	0.0000	0.6999	0.1	0.00
004--05	C3P multistage crusher - conveyor	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.03	0.0000	0.6999	0.1	0.00
004--05	C3P multistage crusher - dump to bin	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.03	0.0000	0.6999	0.1	0.00
004--05	C3P multistage crusher - dump to bin	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.03	0.0000	0.6999	0.1	0.00
004--05	C3P multistage crusher - gyro crusher	Manganese	7439965	no	0.000264151	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.35	0.0002	0.6999	1.2	0.00
004--05	C3P multistage crusher - primary crusher	Manganese	7439965	no	0.000110063	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.14	0.0001	0.6999	0.5	0.00
004--05	C3P multistage crusher - product loading	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.03	0.0000	0.6999	0.1	0.00
004--05	C3P multistage crusher - product loading to conveyor	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.03	0.0000	0.6999	0.1	0.00
004--05	C3P multistage crusher - screen box	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.03	0.0000	0.6999	0.1	0.00
004--05	C3P multistage crusher - screen box	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.03	0.0000	0.6999	0.1	0.00
004--05	C3P multistage crusher - vibrator	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.03	0.0000	0.6999	0.1	0.00
004--05	C3P multistage crusher - conveyor	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - dump to bin	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - dump to bin	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - gyro crusher	Mercury	7439976	no	5.40E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - primary crusher	Mercury	7439976	no	2.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - product loading	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - product loading to conveyor	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - screen box	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - screen box	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - vibrator	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--05	C3P multistage crusher - dump to bin	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - dump to bin	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - gyro crusher	Nickel	7440020	no	7.25E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.1	0.00005	0.6999	0.3	0.00
004--05	C3P multistage crusher - primary crusher	Nickel	7440020	no	3.02E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00002	0.6999	0.1	0.00
004--05	C3P multistage crusher - product loading	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - product loading to conveyor	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - screen box	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - screen box	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - vibrator	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00000	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00001	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00001	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00001	0.6999	0.0	0.00
004--05	C3P multistage crusher - dump to bin	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00001	0.6999	0.0	0.00
004--05	C3P multistage crusher - dump to bin	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00001	0.6999	0.0	0.00
004--05	C3P multistage crusher - gyro crusher	Phosphorus	7723140	no	1.11E-04	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.1	0.00007	0.6999	0.5	0.00
004--05	C3P multistage crusher - primary crusher	Phosphorus	7723140	no	4.64E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.1	0.00003	0.6999	0.2	0.00
004--05	C3P multistage crusher - product loading	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00001	0.6999	0.0	0.00
004--05	C3P multistage crusher - product loading to conveyor	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00001	0.6999	0.0	0.00
004--05	C3P multistage crusher - screen box	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00001	0.6999	0.0	0.00
004--05	C3P multistage crusher - screen box	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00001	0.6999	0.0	0.00
004--05	C3P multistage crusher - vibrator	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			0.0	0.00001	0.6999	0.0	0.00
004--05	C3P multistage crusher - conveyor	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			78.84	0.0394	0.6999	262.7	0.13
004--05	C3P multistage crusher - conveyor	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			78.84	0.0394	0.6999	262.7	0.13
004--05	C3P multistage crusher - conveyor	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			78.84	0.0394	0.6999	262.7	0.13
004--05	C3P multistage crusher - conveyor	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			78.84	0.0394	0.6999	262.7	0.13
004--05	C3P multistage crusher - dump to bin	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			78.84	0.0394	0.6999	262.7	0.13
004--05	C3P multistage crusher - dump to bin	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			78.84	0.0394	0.6999	262.7	0.13
004--05	C3P multistage crusher - gyro crusher	PM10	PM10	yes	0.6	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			788.40	0.3942	0.6999	2627.4	1.31
004--05	C3P multistage crusher - primary crusher	PM10	PM10	yes	0.05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			65.70	0.0329	0.6999	218.9	0.11
004--05	C3P multistage crusher - product loading	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			78.84	0.0394	0.6999	262.7	0.13
004--05	C3P multistage crusher - product loading to conveyor	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			78.84	0.0394	0.6999	262.7	0.13
004--05	C3P multistage crusher - screen box	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			78.84	0.0394	0.6999	262.7	0.13
004--05	C3P multistage crusher - screen box	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			78.84	0.0394	0.6999	262.7	0.13
004--05	C3P multistage crusher - vibrator	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			78.84	0.0394	0.6999	262.7	0.13
004--05	C3P multistage crusher - conveyor	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			47.30	0.0237	0.6999	157.6	0.08
004--05	C3P multistage crusher - conveyor	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			47.30	0.0237	0.6999	157.6	0.08
004--05	C3P multistage crusher - conveyor	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			47.30	0.0237	0.6999	157.6	0.08
004--05	C3P multistage crusher - conveyor	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			47.30	0.0237	0.6999	157.6	0.08
004--05	C3P multistage crusher - dump to bin	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			47.30	0.0237	0.6999	157.6	0.08

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--05	C3P multistage crusher - dump to bin	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			47.30	0.0237	0.6999	157.6	0.08
004--05	C3P multistage crusher - gyro crusher	PM2.5	PM2.5	yes	0.36	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			473.04	0.2365	0.6999	1576.4	0.79
004--05	C3P multistage crusher - primary crusher	PM2.5	PM2.5	yes	0.05	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			65.70	0.0329	0.6999	218.9	0.11
004--05	C3P multistage crusher - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			47.30	0.0237	0.6999	157.6	0.08
004--05	C3P multistage crusher - product loading to conveyor	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			47.30	0.0237	0.6999	157.6	0.08
004--05	C3P multistage crusher - screen box	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			47.30	0.0237	0.6999	157.6	0.08
004--05	C3P multistage crusher - screen box	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			47.30	0.0237	0.6999	157.6	0.08
004--05	C3P multistage crusher - vibrator	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			47.30	0.0237	0.6999	157.6	0.08
004--05	C3P multistage crusher	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			157.68	0.0788	0.6999	525.5	0.26
004--05	C3P multistage crusher - conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			157.68	0.0788	0.6999	525.5	0.26
004--05	C3P multistage crusher - conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			157.68	0.0788	0.6999	525.5	0.26
004--05	C3P multistage crusher - conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			157.68	0.0788	0.6999	525.5	0.26
004--05	C3P multistage crusher - dump to bin	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			157.68	0.0788	0.6999	525.5	0.26
004--05	C3P multistage crusher - dump to bin	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			157.68	0.0788	0.6999	525.5	0.26
004--05	C3P multistage crusher - gyro crusher	TSP (Particulate)	PT	yes	1.2	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			1576.80	0.7884	0.6999	5254.8	2.63
004--05	C3P multistage crusher - primary crusher	TSP (Particulate)	PT	yes	0.5	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			657.00	0.3285	0.6999	2189.5	1.09
004--05	C3P multistage crusher - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			157.68	0.0788	0.6999	525.5	0.26
004--05	C3P multistage crusher - product loading to conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			157.68	0.0788	0.6999	525.5	0.26
004--05	C3P multistage crusher - screen box	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			157.68	0.0788	0.6999	525.5	0.26
004--05	C3P multistage crusher - screen box	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			157.68	0.0788	0.6999	525.5	0.26
004--05	C3P multistage crusher - vibrator	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P Multistage crusher throughput	438,000			157.68	0.0788	0.6999	525.5	0.26
004--06	C3P drum packing station - crane loading into packing system	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.999	0.99		C3P Drum packing station throughput	43,800			2628	1.3140	0.9890	239126.4786	119.563239
004--06	C3P drum packing station - packing to drum	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.999	0.99		C3P Drum packing station throughput	43,800			2628	1.3140	0.9890	239126.4786	119.563239
004--06	C3P drum packing station - crane loading into packing system	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.999	0.99		C3P Drum packing station throughput	43,800			1577	0.7884	0.9890	143475.8872	71.737944
004--06	C3P drum packing station - packing to drum	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.999	0.99		C3P Drum packing station throughput	43,800			1577	0.7884	0.9890	143475.8872	71.737944
004--06	C3P drum packing station - crane loading into packing system	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.999	0.99		C3P Drum packing station throughput	43,800			5256	2.6280	0.9890	478252.9572	239.126479
004--06	C3P drum packing station - packing to drum	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.999	0.99		C3P Drum packing station throughput	43,800			5256	2.6280	0.9890	478252.9572	239.126479
004--07	C3P 4x20 crusher - crusher	Arsenic	7440382	no	3.15094E-06	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.8910	0.0	0.000019
004--07	C3P 4x20 crusher - hand feed to crusher	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.8910	0.0	0.000002
004--07	C3P 4x20 crusher - product loading	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.8910	0.0	0.000002
004--07	C3P 4x20 crusher - product removal	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.8910	0.0	0.000002
004--07	C3P 4x20 crusher - screen	Arsenic	7440382	no	3.15094E-07	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.8910	0.0	0.000002
004--07	C3P 4x20 crusher - crusher	Chromium	7440473	no	5.11321E-05	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.9801	0.3	0.000167
004--07	C3P 4x20 crusher - hand feed to crusher	Chromium	7440473	no	5.11321E-06	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.9801	0.0	0.000017
004--07	C3P 4x20 crusher - product loading	Chromium	7440473	no	5.11321E-06	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.9801	0.0	0.000017
004--07	C3P 4x20 crusher - product removal	Chromium	7440473	no	3.15094E-07	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.9801	0.0	0.000001
004--07	C3P 4x20 crusher - screen	Chromium	7440473	no	5.11321E-06	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.9801	0.0	0.000017
004--07	C3P 4x20 crusher - crusher	Lead	7439921	no	5.70E-06	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.1	0.000034
004--07	C3P 4x20 crusher - hand feed to crusher	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.0	0.000003
004--07	C3P 4x20 crusher - product loading	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.0	0.000003

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--07	C3P 4x20 crusher - product removal	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.0	0.000003
004--07	C3P 4x20 crusher - screen	Lead	7439921	no	5.70E-07	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.0	0.000003
004--07	C3P 4x20 crusher - crusher	Manganese	7439965	no	0.000264151	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.9801	1.7	0.000863
004--07	C3P 4x20 crusher - hand feed to crusher	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.9801	0.2	0.000086
004--07	C3P 4x20 crusher - product loading	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.9801	0.2	0.000086
004--07	C3P 4x20 crusher - product removal	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.9801	0.2	0.000086
004--07	C3P 4x20 crusher - screen	Manganese	7439965	no	2.64151E-05	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			0	0.0000	0.9801	0.2	0.000086
004--07	C3P 4x20 crusher - crusher	Mercury	7439976	no	5.40E-06	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.1	0.000032
004--07	C3P 4x20 crusher - hand feed to crusher	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.0	0.000003
004--07	C3P 4x20 crusher - product loading	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.0	0.000003
004--07	C3P 4x20 crusher - product removal	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.0	0.000003
004--07	C3P 4x20 crusher - screen	Mercury	7439976	no	5.40E-07	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.0	0.000003
004--07	C3P 4x20 crusher - crusher	Nickel	7440020	no	7.25E-05	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.1	0.00005	0.8910	0.9	0.000432
004--07	C3P 4x20 crusher - hand feed to crusher	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.1	0.000043
004--07	C3P 4x20 crusher - product loading	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.1	0.000043
004--07	C3P 4x20 crusher - product removal	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.1	0.000043
004--07	C3P 4x20 crusher - screen	Nickel	7440020	no	7.25E-06	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.8910	0.1	0.000043
004--07	C3P 4x20 crusher - crusher	Phosphorus	7723140	no	1.11E-04	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.1	0.00007	0.8910	1.3	0.000664
004--07	C3P 4x20 crusher - hand feed to crusher	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00001	0.8910	0.1	0.000066
004--07	C3P 4x20 crusher - product loading	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00001	0.8910	0.1	0.000066
004--07	C3P 4x20 crusher - product removal	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00001	0.8910	0.1	0.000066
004--07	C3P 4x20 crusher - screen	Phosphorus	7723140	no	1.11E-05	lb/ton	Scrubber	0.9	0.99	None	C3P 4x20 crusher throughput	13,140			0.0	0.00001	0.8910	0.1	0.000066
004--07	C3P 4x20 crusher - crusher	PM10	PM10	yes	0.6	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			78	0.0390	0.9801	3922.2	1.961095
004--07	C3P 4x20 crusher - hand feed to crusher	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			8	0.0039	0.9801	392.2	0.196110
004--07	C3P 4x20 crusher - product loading	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			8	0.0039	0.9801	392.2	0.196110
004--07	C3P 4x20 crusher - product removal	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			8	0.0039	0.9801	392.2	0.196110
004--07	C3P 4x20 crusher - screen	PM10	PM10	yes	0.06	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			8	0.0039	0.9801	392.2	0.196110
004--07	C3P 4x20 crusher - crusher	PM2.5	PM2.5	yes	0.36	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			47	0.0234	0.9801	2353.3	1.176657
004--07	C3P 4x20 crusher - hand feed to crusher	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			5	0.0023	0.9801	235.3	0.117666
004--07	C3P 4x20 crusher - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			5	0.0023	0.9801	235.3	0.117666
004--07	C3P 4x20 crusher - product removal	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			5	0.0023	0.9801	235.3	0.117666
004--07	C3P 4x20 crusher - screen	PM2.5	PM2.5	yes	0.036	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			5	0.0023	0.9801	235.3	0.117666
004--07	C3P 4x20 crusher - crusher	TSP (Particulate)	PT	yes	1.2	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			156	0.0781	0.9801	7844.4	3.922191
004--07	C3P 4x20 crusher - hand feed to crusher	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			16	0.0078	0.9801	784.4	0.392219
004--07	C3P 4x20 crusher - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			16	0.0078	0.9801	784.4	0.392219
004--07	C3P 4x20 crusher - product removal	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			16	0.0078	0.9801	784.4	0.392219
004--07	C3P 4x20 crusher - screen	TSP (Particulate)	PT	yes	0.12	lb/ton	Scrubber	0.99	0.99	None	C3P 4x20 crusher throughput	13,140			16	0.0078	0.9801	784.4	0.392219
004--07	C3P 4x20 crusher - crusher	Arsenic	7440382	no	3.15094E-06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - hand feed to crusher	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - product loading	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000000

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--07	C3P 4x20 crusher - product removal	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - screen	Arsenic	7440382	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - crusher	Chromium	7440473	no	5.11321E-05	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000003
004--07	C3P 4x20 crusher - hand feed to crusher	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - product loading	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - product removal	Chromium	7440473	no	3.15094E-07	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - screen	Chromium	7440473	no	5.11321E-06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - crusher	Lead	7439921	no	5.70E-06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - hand feed to crusher	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - product loading	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - product removal	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - screen	Lead	7439921	no	5.70E-07	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - crusher	Manganese	7439965	no	0.000264151	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.01	0.0000	0.6999	0.0	0.000017
004--07	C3P 4x20 crusher - hand feed to crusher	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000002
004--07	C3P 4x20 crusher - product loading	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000002
004--07	C3P 4x20 crusher - product removal	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000002
004--07	C3P 4x20 crusher - screen	Manganese	7439965	no	2.64151E-05	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.00	0.0000	0.6999	0.0	0.000002
004--07	C3P 4x20 crusher - crusher	Mercury	7439976	no	5.40E-06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - hand feed to crusher	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - product loading	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - product removal	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - screen	Mercury	7439976	no	5.40E-07	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - crusher	Nickel	7440020	no	7.25E-05	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000005
004--07	C3P 4x20 crusher - hand feed to crusher	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - product loading	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - product removal	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - screen	Nickel	7440020	no	7.25E-06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000000
004--07	C3P 4x20 crusher - crusher	Phosphorus	7723140	no	1.11E-04	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000007
004--07	C3P 4x20 crusher - hand feed to crusher	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000001
004--07	C3P 4x20 crusher - product loading	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000001
004--07	C3P 4x20 crusher - product removal	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000001
004--07	C3P 4x20 crusher - screen	Phosphorus	7723140	no	1.11E-05	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			0.0	0.00000	0.6999	0.0	0.000001
004--07	C3P 4x20 crusher - crusher	PM10	PM10	yes	0.6	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			23.65	0.0118	0.6999	78.8	0.039411
004--07	C3P 4x20 crusher - hand feed to crusher	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			2.37	0.0012	0.6999	7.9	0.003941
004--07	C3P 4x20 crusher - product loading	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			2.37	0.0012	0.6999	7.9	0.003941
004--07	C3P 4x20 crusher - product removal	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			2.37	0.0012	0.6999	7.9	0.003941
004--07	C3P 4x20 crusher - screen	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			2.37	0.0012	0.6999	7.9	0.003941
004--07	C3P 4x20 crusher - crusher	PM2.5	PM2.5	yes	0.36	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			14.19	0.0071	0.6999	47.3	0.023646
004--07	C3P 4x20 crusher - hand feed to crusher	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			1.42	0.0007	0.6999	4.7	0.002365
004--07	C3P 4x20 crusher - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			1.42	0.0007	0.6999	4.7	0.002365

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
004--07	C3P 4x20 crusher - product removal	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			1.42	0.0007	0.6999	4.7	0.002365
004--07	C3P 4x20 crusher - screen	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			1.42	0.0007	0.6999	4.7	0.002365
004--07	C3P 4x20 crusher - crusher	TSP (Particulate)	PT	yes	1.2	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			47.30	0.0237	0.6999	157.6	0.078822
004--07	C3P 4x20 crusher - hand feed to crusher	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			4.73	0.0024	0.6999	15.8	0.007882
004--07	C3P 4x20 crusher - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			4.73	0.0024	0.6999	15.8	0.007882
004--07	C3P 4x20 crusher - product removal	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			4.73	0.0024	0.6999	15.8	0.007882
004--07	C3P 4x20 crusher - screen	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99	C3P 4x20 crusher throughput	13,140			4.73	0.0024	0.6999	15.8	0.007882
004--08	product loading operations - total loading op.	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	total product handled (Plant Data)	1,055,580.00			19005	9.5024	0.6999	63334.8	31.67
004--08	product loading operations - total loading op.	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	None	total product handled (Plant Data)	1,055,580.00			11403	5.7015	0.6999	38000.9	19.00
004--08	product loading operations - total loading op.	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	total product handled (Plant Data)	1,055,580.00			38010	19.0049	0.6999	126669.6	63.33
004--09	baghouse dust handling - total dust hndlg	Arsenic	7440382	no	3.15094E-07	lb/ton	slurry truck control	0.5	0.9999	None	baghouse dust generated (Plant data)	65,100.00			0	0.0000	0.5000	0.0	0.00
004--09	baghouse dust handling - total dust hndlg	Chromium	7440473	no	5.11321E-06	lb/ton	slurry truck control	0.5	0.9999	None	baghouse dust generated (Plant data)	65,100.00			0	0.0001	0.5000	0.3	0.00
004--09	baghouse dust handling - total dust hndlg	Lead	7439921	no	5.70E-07	lb/ton	slurry truck control	0.5	0.9999	None	baghouse dust generated (Plant data)	65,100.00			0.0	0.00001	0.5000	0.0	0.00
004--09	baghouse dust handling - total dust hndlg	Manganese	7439965	no	2.64151E-05	lb/ton	slurry truck control	0.5	0.9999	None	baghouse dust generated (Plant data)	65,100.00			1	0.0004	0.5000	1.7	0.00
004--09	baghouse dust handling - total dust hndlg	Mercury	7439976	no	5.40E-07	lb/ton	slurry truck control	0.5	0.9999	None	baghouse dust generated (Plant data)	65,100.00			0.0	0.00001	0.5000	0.0	0.00
004--09	baghouse dust handling - total dust hndlg	Nickel	7440020	no	7.25E-06	lb/ton	slurry truck control	0.5	0.9999	None	baghouse dust generated (Plant data)	65,100.00			0.2	0.00012	0.5000	0.5	0.00
004--09	baghouse dust handling - total dust hndlg	Phosphorus	7723140	no	1.11E-05	lb/ton	slurry truck control	0.5	0.9999	None	baghouse dust generated (Plant data)	65,100.00			0.4	0.00018	0.5000	0.7	0.00
004--09	baghouse dust handling - total dust hndlg	PM10	PM10	yes	0.06	lb/ton	slurry truck control	0.5	0.9999	None	baghouse dust generated (Plant data)	65,100.00			1953	0.9766	0.5000	3906.0	1.95
004--09	baghouse dust handling - total dust hndlg	PM2.5	PM2.5	yes	0.036	lb/ton	slurry truck control	0.5	0.9999	None	baghouse dust generated (Plant data)	65,100.00			1172	0.5860	0.5000	2343.6	1.17
004--09	baghouse dust handling - total dust hndlg	TSP (Particulate)	PT	yes	0.12	lb/ton	slurry truck control	0.5	0.9999	None	baghouse dust generated (Plant data)	65,100.00			3906	1.9532	0.5000	7812.0	3.91
004--10	product stock piles - loading operations	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	material stored prior to sizing (Plant Data)	1,055,580	material stored after sizing - loaded to trucks/barges	8,743	19162	9.5811	0.6999	63859.4	31.93
004--10		PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None		1,055,580		8,743	19162	9.5811	0.6999	63859.4	31.93
004--10		PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	None		1,055,580		8,743	11497	5.7487	0.6999	38315.6	19.16
004--10		PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	None		1,055,580		8,743	11497	5.7487	0.6999	38315.6	19.16
004--10		TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None		1,055,580		8,743	38325	19.1623	0.6999	127718.8	63.86
004--10		TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None		1,055,580		8,743	38325	19.1623	0.6999	127718.8	63.86
005--01	remelts stock piles - active days	PM10	PM10	yes	6.732	lb/ton	None				Acre of storage	1	Active Days	312	2100	1.0502	0.0000	2100	1.05
005--01		PM10	PM10	yes	1.785	lb/ton	None					1	Inactive Days	53	95	0.0473	0.0000	95	0.05
005--01		PM2.5	PM2.5	yes	3.96	lb/ton	None					1	Active Days	312	1236	0.6178	0.0000	1236	0.62
005--01		PM2.5	PM2.5	yes	1.05	lb/ton	None					1	Inactive Days	53	56	0.0278	0.0000	56	0.03
005--01		TSP (Particulate)	PT	yes	13.2	lb/ton	None					1	Active Days	312	4118	2.0592	0.0000	4118	2.06
005--01		TSP (Particulate)	PT	yes	3.5	lb/ton	None					1	Inactive Days	53	186	0.0928	0.0000	186	0.09
005--02	plant roadways	PM10	PM10	yes	2.68	lb/mile	None				Number of trips/day	38.00	Miles per trip	0.34	12661	6.3303	0.0000	12661	6.33
005--02	plant roadways	PM2.5	PM2.5	yes	0.39	lb/mile	None					38.00		0.34	1850	0.9252	0.0000	1850	0.93
005--02	plant roadways	TSP (Particulate)	PT	yes	12.86	lb/mile	None					38.00		0.34	60793	30.3967	0.0000	60793	30.40
005--03	landfill haulway	PM10	PM10	yes	1.81	lb/mile	None				Number of trips	0.00	Miles per trip	1.3	0	0.0000	0.0000	0	0.000000
005--03	landfill haulway	PM2.5	PM2.5	yes	0.28	lb/mile	None					0.00		1.3	0	0.0000	0.0000	0	0.000000
005--03	landfill haulway	TSP (Particulate)	PT	yes	6.40	lb/mile	None					0.00		1.3	0	0.0000	0.0000	0	0.000000
005--04	landfill	PM10	PM10	yes	0	lb/ton	None					0			0	0.0000	0.0000	0	0.000000
005--04	landfill	PM10	PM10	yes	0	lb/ton	None					0			0	0.0000	0.0000	0	0.000000



Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
005--04	landfill	PM2.5	PM2.5	yes	0	lb/ton	None				total material to landfill	0			0	0.0000	0.0000	0	0.000000
005--04	landfill	PM2.5	PM2.5	yes	0	lb/ton	None					0			0	0.0000	0.0000	0	0.000000
005--04	landfill	TSP (Particulate)	PT	yes	0	lb/ton	None					0			0	0.0000	0.0000	0	0.000000
005--04	landfill	TSP (Particulate)	PT	yes	0	lb/ton	None					0			0	0.0000	0.0000	0	0.000000
006--01	no.3 FCE cooling tower	PM10	PM10	yes	0.000019	lb/gal	None				water to cooling tower (gal/min)	900	Operating Hours	8,760	8988	4.4939	0.0000	8988	4.49
006--01	no.3 FCE cooling tower	PM2.5	PM2.5	yes	0.000019	lb/gal	None					900	Operating Hours	8,760	8988	4.4939	0.0000	8988	4.49
006--01	no.3 FCE cooling tower	TSP (Particulate)	PT	yes	0.000019	lb/gal	None					900	Operating Hours	8,760	8988	4.4939	0.0000	8988	4.49
006--02	C3F ladle lining	PM10	PM10	yes	0.0205	lb/lb	water control	0.9	0.9999	0.7	Ladle lining material usage	9,600,000			5904.00	2.9520	0.8999	58986.9	29.49
006--02	C3F ladle lining	PM2.5	PM2.5	yes	0.0123	lb/lb	water control	0.9	0.9999	0.7	Ladle lining material usage	9,600,000			3542.40	1.7712	0.8999	35392.1	17.70
006--02	C3F ladle lining	TSP (Particulate)	PT	yes	0.041	lb/lb	water control	0.9	0.9999	0.7	Ladle lining material usage	9,600,000			11808.00	5.9040	0.8999	117973.8	58.99
006--03	ladle dig-out - (primary crushing)	Arsenic	7440382	No	1.31289E-06	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.0090	0.0000	0.6999	0.0	0.00
006--03	ladle dig-out - dump ladle to storage pile	Arsenic	7440382	No	3.15094E-07	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.0022	0.0000	0.6999	0.0	0.00
006--03	ladle dig-out - load to truck	Arsenic	7440382	No	3.15094E-07	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.0022	0.0000	0.6999	0.0	0.00
006--03	ladle dig-out - (primary crushing)	Chromium	7440473	No	2.1305E-05	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.1456	0.0001	0.6999	0.4854	0.00
006--03	ladle dig-out - dump ladle to storage pile	Chromium	7440473	No	5.11321E-06	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.0350	0.0000	0.6999	0.1165	0.00
006--03	ladle dig-out - load to truck	Chromium	7440473	No	5.11321E-06	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.0350	0.0000	0.6999	0.1165	0.00
006--03	ladle dig-out - (primary crushing)	Lead	7439921	No	2.37E-06	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.0	0.00001	0.6999	0.1	0.00
006--03	ladle dig-out - dump ladle to storage pile	Lead	7439921	No	5.70E-07	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.0	0.00000	0.6999	0.0	0.00
006--03	ladle dig-out - load to truck	Lead	7439921	No	5.70E-07	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.0	0.00000	0.6999	0.0	0.00
006--03	ladle dig-out - (primary crushing)	Manganese	7439965	No	0.000110063	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.7524	0.0004	0.6999	2.5	0.00
006--03	ladle dig-out - dump ladle to storage pile	Manganese	7439965	No	2.64151E-05	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.1806	0.0001	0.6999	0.6	0.00
006--03	ladle dig-out - load to truck	Manganese	7439965	No	2.64151E-05	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.1806	0.0001	0.6999	0.6	0.00
006--03	ladle dig-out - (primary crushing)	Mercury	7439976	No	2.25E-06	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.0	0.00001	0.6999	0.0512	0.00
006--03	ladle dig-out - dump ladle to storage pile	Mercury	7439976	No	5.40E-07	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.0	0.00000	0.6999	0.0123	0.00
006--03	ladle dig-out - load to truck	Mercury	7439976	No	5.40E-07	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.0	0.00000	0.6999	0.0123	0.00
006--03	ladle dig-out - (primary crushing)	Nickel	7440020	No	3.02E-05	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.2	0.00010	0.6999	0.7	0.00
006--03	ladle dig-out - dump ladle to storage pile	Nickel	7440020	No	7.25E-06	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.0	0.00002	0.6999	0.2	0.00
006--03	ladle dig-out - load to truck	Nickel	7440020	No	7.25E-06	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.0	0.00002	0.6999	0.2	0.00
006--03	ladle dig-out - (primary crushing)	Phosphorus	7723140	No	4.64E-05	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.3	0.00016	0.6999	1.1	0.00
006--03	ladle dig-out - dump ladle to storage pile	Phosphorus	7723140	No	1.11E-05	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.1	0.00004	0.6999	0.3	0.00
006--03	ladle dig-out - load to truck	Phosphorus	7723140	No	1.11E-05	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			0.1	0.00004	0.6999	0.3	0.00
006--03	ladle dig-out - (primary crushing)	PM10	PM10	yes	0.05	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			342	0.1709	0.6999	1139.1	0.57
006--03	ladle dig-out - dump ladle to storage pile	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			410	0.2051	0.6999	1366.9	0.68
006--03	ladle dig-out - load to truck	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			410	0.2051	0.6999	1366.9	0.68
006--03	ladle dig-out - (primary crushing)	PM2.5	PM2.5	yes	0.05	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			342	0.1709	0.6999	1139.1	0.57
006--03	ladle dig-out - dump ladle to storage pile	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			246	0.1231	0.6999	820.2	0.41
006--03	ladle dig-out - load to truck	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			246	0.1231	0.6999	820.2	0.41
006--03	ladle dig-out - (primary crushing)	TSP (Particulate)	PT	yes	0.5	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			3418	1.7090	0.6999	11391.0	5.70
006--03	ladle dig-out - dump ladle to storage pile	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			820	0.4102	0.6999	2733.8	1.37
006--03	ladle dig-out - load to truck	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None	Ladle dig out material	22,782			820	0.4102	0.6999	2733.8	1.37

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
006--04	laboratory herzogs	PM10	PM10	yes	0.72	lb/ton	dust Collector	0.5	0.9999	None	Number of samples	128,000	weight of samples (grams)	25	1.3	0.0006	0.5000	2.5	0.00
006--04	laboratory herzogs	PM2.5	PM2.5	yes	0.31	lb/ton	dust Collector	0.5	0.9999	None	Number of samples	128,000	weight of samples (grams)	25	0.5	0.0003	0.5000	1.1	0.00
006--04	laboratory herzogs	TSP (Particulate)	PT	yes	2.4	lb/ton	dust Collector	0.5	0.9999	None	Number of samples	128,000	weight of samples (grams)	25	4.2	0.0021	0.5000	8.5	0.00
006--05	sample prep. crushing	PM10	PM10	yes	0.6	lb/ton	None				Sample prep crushing throughput (lb/yr)	128,000			38	0.0192	0.0000	38	0.02
006--05	sample prep. crushing	PM2.5	PM2.5	yes	0.36	lb/ton	None					128,000			23	0.0115	0.0000	23	0.01
006--05	sample prep. crushing	TSP (Particulate)	PT	yes	1.2	lb/ton	None					128,000			77	0.0384	0.0000	77	0.04
006--06	lance pipes	Ammonia	7664417	no	3.2E+00	lb/10 <sup>6</sup> scf	None				Natural Gas used per year	40			128	0.0640	0.0000	128	0.06
006--06	lance pipes	anthracene	120127	no	1.2E-06	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Arsenic	7440382	no	2.0E-04	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Barium	BAC	no	4.4E-03	lb/10 <sup>6</sup> scf	None					40			0	0.0001	0.0000	0	0.00
006--06	lance pipes	Benzene	71432	no	2.1E-03	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	benzo(g,h,i)perylene	191242	no	2.4E-06	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Beryllium	7440417	no	1.2E-05	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Cadmium	7440439	no	1.1E-03	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Carbon Dioxide	124389	no	1.2E+05	lb/10 <sup>6</sup> scf	None					40			4800000	2400.0000	0.0000	4800000	2,400.00
006--06	lance pipes	Chromium	7440473	no	1.4E-03	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	CO	CO	yes	84	lb/10 <sup>6</sup> scf	None					40			3360	1.6800	0.0000	3360	1.68
006--06	lance pipes	Cobalt	7440484	no	8.4E-05	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Copper	CUC	no	8.5E-04	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Dichlorobenzene	106467	no	1.2E-03	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Formaldehyde	50000	no	7.5E-02	lb/10 <sup>6</sup> scf	None					40			3	0.0015	0.0000	3	0.00
006--06	lance pipes	Hexane	110543	no	1.8E+00	lb/10 <sup>6</sup> scf	None					40			72	0.0360	0.0000	72	0.04
006--06	lance pipes	Lead	7439921	yes	0.0005	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Lead	7439921	no	5.0E-04	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Lead compounds	PBC	yes	0.0005	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Lead compounds	PBC	no	5.0E-04	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Manganese	7439965	no	3.8E-04	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Mercury	7439976	no	2.6E-04	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Methane	74828	no	2.3E+00	lb/10 <sup>6</sup> scf	None					40			92	0.0460	0.0000	92	0.05
006--06	lance pipes	Molybdenium	MOC	no	1.1E-03	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	hthalene	91203	no	6.1E-04	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Nickel	7440020	no	2.1E-03	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	NOx	10024972	no	2.2E+00	lb/10 <sup>6</sup> scf	None					40			88	0.0440	0.0000	88	0.04
006--06	lance pipes	NOx	NO2	yes	100	lb/10 <sup>6</sup> scf	None					40			4000	2.0000	0.0000	4000	2.00
006--06	lance pipes	phenanthrene	85018	no	1.7E-05	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	PM10	PM10	yes	1.9	lb/10 <sup>6</sup> scf	None					40			76	0.0380	0.0000	76	0.04
006--06	lance pipes	PM2.5	PM2.5	yes	1.9	lb/10 <sup>6</sup> scf	None					40			76	0.0380	0.0000	76	0.04
006--06	lance pipes	Polycyclic aromatic compounds	PAC	no	3.0E-05	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Polycyclic Organic Matter	250	no	8.8E-05	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	Selenium	7782492	no	2.4E-05	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00

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006--06	lance pipes	SOx	SO2	yes	0.6	lb/10 <sup>6</sup> scf	None					40			24	0.0120	0.0000	24	0.01
006--06	lance pipes	Toluene	108883	no	3.4E-03	lb/10 <sup>6</sup> scf	None					40			0	0.0001	0.0000	0	0.00
006--06	lance pipes	TSP (Particulate)	PT	yes	1.9	lb/10 <sup>6</sup> scf	None					40			76	0.0380	0.0000	76	0.04
006--06	lance pipes	Vanadium	VAC	no	2.3E-03	lb/10 <sup>6</sup> scf	None					40			0	0.0000	0.0000	0	0.00
006--06	lance pipes	VOC	VOC	yes	5.5	lb/10 <sup>6</sup> scf	None					40			220	0.1100	0.0000	220	0.11
006--06	lance pipes	Zinc	ZNC	no	2.9E-02	lb/10 <sup>6</sup> scf	None					40			1	0.0006	0.0000	1	0.00
006--07	no.3 FCE ladle preheater	Ammonia	7664417	no	3.2E+00	lb/10 <sup>6</sup> scf	None				Natural Gas used per year	35			112	0.0560	0.0000	112	0.056000
006--07	no.3 FCE ladle preheater	anthracene	120127	no	1.2E-06	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000000
006--07	no.3 FCE ladle preheater	Arsenic	7440382	no	2.0E-04	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000004
006--07	no.3 FCE ladle preheater	Barium	BAC	no	4.4E-03	lb/10 <sup>6</sup> scf	None					35			0	0.0001	0.0000	0	0.000077
006--07	no.3 FCE ladle preheater	Benzene	71432	no	2.1E-03	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000037
006--07	no.3 FCE ladle preheater	benzo(g,h,i)perylene	191242	no	2.4E-06	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000000
006--07	no.3 FCE ladle preheater	Beryllium	7440417	no	1.2E-05	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000000
006--07	no.3 FCE ladle preheater	Cadmium	7440439	no	1.1E-03	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000019
006--07	no.3 FCE ladle preheater	Carbon Dioxide	124389	no	1.2E+05	lb/10 <sup>6</sup> scf	None					35			4200000	2100.0000	0.0000	4200000	2100.000000
006--07	no.3 FCE ladle preheater	Chromium	7440473	no	1.4E-03	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000025
006--07	no.3 FCE ladle preheater	CO	CO	yes	84	lb/10 <sup>6</sup> scf	None					35			2940	1.4700	0.0000	2940	1.470000
006--07	no.3 FCE ladle preheater	Cobalt	7440484	no	8.4E-05	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000001
006--07	no.3 FCE ladle preheater	Copper	CUC	no	8.5E-04	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000015
006--07	no.3 FCE ladle preheater	Dichlorobenzene	106467	no	1.2E-03	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000021
006--07	no.3 FCE ladle preheater	Formaldehyde	50000	no	7.5E-02	lb/10 <sup>6</sup> scf	None					35			3	0.0013	0.0000	3	0.001313
006--07	no.3 FCE ladle preheater	Hexane	110543	no	1.8E+00	lb/10 <sup>6</sup> scf	None					35			63	0.0315	0.0000	63	0.031500
006--07	no.3 FCE ladle preheater	Lead	7439921	yes	0.0005	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000009
006--07	no.3 FCE ladle preheater	Lead	7439921	no	5.0E-04	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000009
006--07	no.3 FCE ladle preheater	Lead compounds	PBC	yes	0.0005	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000009
006--07	no.3 FCE ladle preheater	Lead compounds	PBC	no	5.0E-04	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000009
006--07	no.3 FCE ladle preheater	Manganese	7439965	no	3.8E-04	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000007
006--07	no.3 FCE ladle preheater	Mercury	7439976	no	2.6E-04	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000005
006--07	no.3 FCE ladle preheater	Methane	74828	no	2.3E+00	lb/10 <sup>6</sup> scf	None					35			81	0.0403	0.0000	81	0.040250
006--07	no.3 FCE ladle preheater	Molybdenium	MOC	no	1.1E-03	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000019
006--07	no.3 FCE ladle preheater	hthalene	91203	no	6.1E-04	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000011
006--07	no.3 FCE ladle preheater	Nickel	7440020	no	2.1E-03	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000037
006--07	no.3 FCE ladle preheater	NOx	10024972	no	2.2E+00	lb/10 <sup>6</sup> scf	None					35			77	0.0385	0.0000	77	0.038500
006--07	no.3 FCE ladle preheater	NOx	NO2	yes	100	lb/10 <sup>6</sup> scf	None					35			3500	1.7500	0.0000	3500	1.750000
006--07	no.3 FCE ladle preheater	phenanthrene	85018	no	1.7E-05	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000000
006--07	no.3 FCE ladle preheater	PM10	PM10	yes	1.9	lb/10 <sup>6</sup> scf	None					35			67	0.0333	0.0000	67	0.033250
006--07	no.3 FCE ladle preheater	PM2.5	PM2.5	yes	1.9	lb/10 <sup>6</sup> scf	None					35			67	0.0333	0.0000	67	0.033250
006--07	no.3 FCE ladle preheater	Polycyclic aromatic compounds	PAC	no	3.0E-05	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000001
006--07	no.3 FCE ladle preheater	Polycyclic Organic Matter	250	no	8.8E-05	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000002
006--07	no.3 FCE ladle preheater	Selenium	7782492	no	2.4E-05	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000000

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
006--07	no.3 FCE ladle preheater	SOx	SO2	yes	0.6	lb/10 <sup>6</sup> scf	None					35			21	0.0105	0.0000	21	0.010500
006--07	no.3 FCE ladle preheater	Toluene	108883	no	3.4E-03	lb/10 <sup>6</sup> scf	None					35			0	0.0001	0.0000	0	0.000060
006--07	no.3 FCE ladle preheater	TSP (Particulate)	PT	yes	1.9	lb/10 <sup>6</sup> scf	None					35			67	0.0333	0.0000	67	0.033250
006--07	no.3 FCE ladle preheater	Vanadium	VAC	no	2.3E-03	lb/10 <sup>6</sup> scf	None					35			0	0.0000	0.0000	0	0.000040
006--07	no.3 FCE ladle preheater	VOC	VOC	yes	5.5	lb/10 <sup>6</sup> scf	None					35			193	0.0963	0.0000	193	0.096250
006--07	no.3 FCE ladle preheater	Zinc	ZNC	no	2.9E-02	lb/10 <sup>6</sup> scf	None					35			1	0.0005	0.0000	1	0.000508
006--08	no. 6 & 7 FCE ladle preheaters	Ammonia	7664417	no	3.2E+00	lb/10 <sup>6</sup> scf	None				Natural Gas used per year	53			170	0.0848	0.0000	170	0.084800
006--08	no. 6 & 7 FCE ladle preheaters	anthracene	120127	no	1.2E-06	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000000
006--08	no. 6 & 7 FCE ladle preheaters	Arsenic	7440382	no	2.0E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000005
006--08	no. 6 & 7 FCE ladle preheaters	Barium	BAC	no	4.4E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0001	0.0000	0	0.000117
006--08	no. 6 & 7 FCE ladle preheaters	Benzene	71432	no	2.1E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0001	0.0000	0	0.000056
006--08	no. 6 & 7 FCE ladle preheaters	benzo(g,h,i)perylene	191242	no	2.4E-06	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000000
006--08	no. 6 & 7 FCE ladle preheaters	Beryllium	7440417	no	1.2E-05	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000000
006--08	no. 6 & 7 FCE ladle preheaters	Cadmium	7440439	no	1.1E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000029
006--08	no. 6 & 7 FCE ladle preheaters	Carbon Dioxide	124389	no	1.2E+05	lb/10 <sup>6</sup> scf	None					53			6360000	3180.0000	0.0000	6360000	3180.000000
006--08	no. 6 & 7 FCE ladle preheaters	Chromium	7440473	no	1.4E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000037
006--08	no. 6 & 7 FCE ladle preheaters	CO	CO	yes	84	lb/10 <sup>6</sup> scf	None					53			4452	2.2260	0.0000	4452	2.226000
006--08	no. 6 & 7 FCE ladle preheaters	Cobalt	7440484	no	8.4E-05	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000002
006--08	no. 6 & 7 FCE ladle preheaters	Copper	CUC	no	8.5E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000023
006--08	no. 6 & 7 FCE ladle preheaters	Dichlorobenzene	106467	no	1.2E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000032
006--08	no. 6 & 7 FCE ladle preheaters	Formaldehyde	50000	no	7.5E-02	lb/10 <sup>6</sup> scf	None					53			4	0.0020	0.0000	4	0.001988
006--08	no. 6 & 7 FCE ladle preheaters	Hexane	110543	no	1.8E+00	lb/10 <sup>6</sup> scf	None					53			95	0.0477	0.0000	95	0.047700
006--08	no. 6 & 7 FCE ladle preheaters	Lead	7439921	yes	0.0005	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000013
006--08	no. 6 & 7 FCE ladle preheaters	Lead	7439921	no	5.0E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000013
006--08	no. 6 & 7 FCE ladle preheaters	Lead compounds	PBC	yes	0.0005	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000013
006--08	no. 6 & 7 FCE ladle preheaters	Lead compounds	PBC	no	5.0E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000013
006--08	no. 6 & 7 FCE ladle preheaters	Manganese	7439965	no	3.8E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000010
006--08	no. 6 & 7 FCE ladle preheaters	Mercury	7439976	no	2.6E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000007
006--08	no. 6 & 7 FCE ladle preheaters	Methane	74828	no	2.3E+00	lb/10 <sup>6</sup> scf	None					53			122	0.0610	0.0000	122	0.060950
006--08	no. 6 & 7 FCE ladle preheaters	Molybdenium	MOC	no	1.1E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000029
006--08	no. 6 & 7 FCE ladle preheaters	hthalene	91203	no	6.1E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000016
006--08	no. 6 & 7 FCE ladle preheaters	Nickel	7440020	no	2.1E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0001	0.0000	0	0.000056
006--08	no. 6 & 7 FCE ladle preheaters	NOx	10024972	no	2.2E+00	lb/10 <sup>6</sup> scf	None					53			117	0.0583	0.0000	117	0.058300
006--08	no. 6 & 7 FCE ladle preheaters	NOx	NO2	yes	100	lb/10 <sup>6</sup> scf	None					53			5300	2.6500	0.0000	5300	2.650000
006--08	no. 6 & 7 FCE ladle preheaters	phenanthrene	85018	no	1.7E-05	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000000
006--08	no. 6 & 7 FCE ladle preheaters	PM10	PM10	yes	1.9	lb/10 <sup>6</sup> scf	None					53			101	0.0504	0.0000	101	0.050350
006--08	no. 6 & 7 FCE ladle preheaters	PM2.5	PM2.5	yes	1.9	lb/10 <sup>6</sup> scf	None					53			101	0.0504	0.0000	101	0.050350
006--08	no. 6 & 7 FCE ladle preheaters	Polycyclic aromatic compounds	PAC	no	3.0E-05	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000001
006--08	no. 6 & 7 FCE ladle preheaters	Polycyclic Organic Matter	250	no	8.8E-05	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000002
006--08	no. 6 & 7 FCE ladle preheaters	Selenium	7782492	no	2.4E-05	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000001

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
006--08	no. 6 & 7 FCE ladle preheaters	SOx	SO2	yes	0.6	lb/10 <sup>6</sup> scf	None					53			32	0.0159	0.0000	32	0.015900
006--08	no. 6 & 7 FCE ladle preheaters	Toluene	108883	no	3.4E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0001	0.0000	0	0.000090
006--08	no. 6 & 7 FCE ladle preheaters	TSP (Particulate)	PT	yes	1.9	lb/10 <sup>6</sup> scf	None					53			101	0.0504	0.0000	101	0.050350
006--08	no. 6 & 7 FCE ladle preheaters	Vanadium	VAC	no	2.3E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0001	0.0000	0	0.000061
006--08	no. 6 & 7 FCE ladle preheaters	VOC	VOC	yes	5.5	lb/10 <sup>6</sup> scf	None					53			292	0.1458	0.0000	292	0.145750
006--08	no. 6 & 7 FCE ladle preheaters	Zinc	ZNC	no	2.9E-02	lb/10 <sup>6</sup> scf	None					53			2	0.0008	0.0000	2	0.000769
006--09	no.14 FCE ladle preheater	Ammonia	7664417	no	3.2E+00	lb/10 <sup>6</sup> scf	None				Natural Gas used per year	53			170	0.0848	0.0000	170	0.084800
006--09	no.14 FCE ladle preheater	anthracene	120127	no	1.2E-06	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000000
006--09	no.14 FCE ladle preheater	Arsenic	7440382	no	2.0E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000005
006--09	no.14 FCE ladle preheater	Barium	BAC	no	4.4E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0001	0.0000	0	0.000117
006--09	no.14 FCE ladle preheater	Benzene	71432	no	2.1E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0001	0.0000	0	0.000056
006--09	no.14 FCE ladle preheater	benzo(g,h,i)perylene	191242	no	2.4E-06	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000000
006--09	no.14 FCE ladle preheater	Beryllium	7440417	no	1.2E-05	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000000
006--09	no.14 FCE ladle preheater	Cadmium	7440439	no	1.1E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000029
006--09	no.14 FCE ladle preheater	Carbon Dioxide	124389	no	1.2E+05	lb/10 <sup>6</sup> scf	None					53			6360000	3180.0000	0.0000	6360000	3180.000000
006--09	no.14 FCE ladle preheater	Chromium	7440473	no	1.4E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000037
006--09	no.14 FCE ladle preheater	CO	CO	yes	84	lb/10 <sup>6</sup> scf	None					53			4452	2.2260	0.0000	4452	2.226000
006--09	no.14 FCE ladle preheater	Cobalt	7440484	no	8.4E-05	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000002
006--09	no.14 FCE ladle preheater	Copper	CUC	no	8.5E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000023
006--09	no.14 FCE ladle preheater	Dichlorobenzene	106467	no	1.2E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000032
006--09	no.14 FCE ladle preheater	Formaldehyde	50000	no	7.5E-02	lb/10 <sup>6</sup> scf	None					53			4	0.0020	0.0000	4	0.001988
006--09	no.14 FCE ladle preheater	Hexane	110543	no	1.8E+00	lb/10 <sup>6</sup> scf	None					53			95	0.0477	0.0000	95	0.047700
006--09	no.14 FCE ladle preheater	Lead	7439921	no	5.0E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000013
006--09	no.14 FCE ladle preheater	Lead	7439921	yes	5.5	lb/10 <sup>6</sup> scf	None					53			292	0.1458	0.0000	292	0.145750
006--09	no.14 FCE ladle preheater	Lead compounds	PBC	no	5.0E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000013
006--09	no.14 FCE ladle preheater	Lead compounds	PBC	yes	5.5	lb/10 <sup>6</sup> scf	None					53			292	0.1458	0.0000	292	0.145750
006--09	no.14 FCE ladle preheater	Manganese	7439965	no	3.8E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000010
006--09	no.14 FCE ladle preheater	Mercury	7439976	no	2.6E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000007
006--09	no.14 FCE ladle preheater	Methane	74828	no	2.3E+00	lb/10 <sup>6</sup> scf	None					53			122	0.0610	0.0000	122	0.060950
006--09	no.14 FCE ladle preheater	Molybdenium	MOC	no	1.1E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000029
006--09	no.14 FCE ladle preheater	hthalene	91203	no	6.1E-04	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000016
006--09	no.14 FCE ladle preheater	Nickel	7440020	no	2.1E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0001	0.0000	0	0.000056
006--09	no.14 FCE ladle preheater	NOx	10024972	no	2.2E+00	lb/10 <sup>6</sup> scf	None					53			117	0.0583	0.0000	117	0.058300
006--09	no.14 FCE ladle preheater	NOx	NO2	yes	0.0005	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000013
006--09	no.14 FCE ladle preheater	phenanthrene	85018	no	1.7E-05	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000000
006--09	no.14 FCE ladle preheater	PM10	PM10	yes	100	lb/10 <sup>6</sup> scf	None					53			5300	2.6500	0.0000	5300	2.650000
006--09	no.14 FCE ladle preheater	PM2.5	PM2.5	yes	1.9	lb/10 <sup>6</sup> scf	None					53			101	0.0504	0.0000	101	0.050350
006--09	no.14 FCE ladle preheater	Polycyclic aromatic compounds	PAC	no	3.0E-05	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000001
006--09	no.14 FCE ladle preheater	Polycyclic Organic Matter	250	no	8.8E-05	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000002
006--09	no.14 FCE ladle preheater	Selenium	7782492	no	2.4E-05	lb/10 <sup>6</sup> scf	None					53			0	0.0000	0.0000	0	0.000001

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
006--09	no.14 FCE ladle preheater	SOx	SO2	yes	1.9	lb/10 <sup>6</sup> scf	None					53			101	0.0504	0.0000	101	0.050350
006--09	no.14 FCE ladle preheater	Toluene	108883	no	3.4E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0001	0.0000	0	0.000090
006--09	no.14 FCE ladle preheater	TSP (Particulate)	PT	yes	0.6	lb/10 <sup>6</sup> scf	None					53			32	0.0159	0.0000	32	0.015900
006--09	no.14 FCE ladle preheater	Vanadium	VAC	no	2.3E-03	lb/10 <sup>6</sup> scf	None					53			0	0.0001	0.0000	0	0.000061
006--09	no.14 FCE ladle preheater	VOC	VOC	yes	1.9	lb/10 <sup>6</sup> scf	None					53			101	0.0504	0.0000	101	0.050350
006--09	no.14 FCE ladle preheater	Zinc	ZNC	no	2.9E-02	lb/10 <sup>6</sup> scf	None					53			2	0.0008	0.0000	2	0.000769
007--01	Diesel Tanks	Benzene	71432	no	0.6254	Weight Percent	None				VOC Emissions (lb/yr)	6			0.04	0.0000	0.0000	0	0.00
007--01	Diesel Tanks	Cumene	98828	no	0.01565	Weight Percent	None				VOC Emissions (lb/yr)	6			0.00	0.0000	0.0000	0	0.00
007--01	Diesel Tanks	Ethyl Benzene	100414	no	0.063	Weight Percent	None				VOC Emissions (lb/yr)	6			0.00	0.0000	0.0000	0	0.00
007--01	Diesel Tanks	Hexane	110543	no	3.6	Weight Percent	None				VOC Emissions (lb/yr)	6			0.22	0.0001	0.0000	0	0.00
007--01	Diesel Tanks	Toluene	108883	no	4.42	Weight Percent	None				VOC Emissions (lb/yr)	6			0.27	0.0001	0.0000	0	0.00
007--01	Diesel Tanks	VOC	VOC	yes			None								6	0.0030	0.0000	6	0.00
007--01	Diesel Tanks	Xylenes	1330207	no	0.842	Weight Percent	None				VOC Emissions (lb/yr)	6			0.05	0.0000	0.0000	0	0.00
007--02	Gasoline Tank	Benzene	71432	no	0.235	Weight Percent	None				VOC Emissions (lb/yr)	255			1	0.0003	0.0000	1	0.00
007--02	Gasoline Tank	Cumene	98828	no	12.38	Weight Percent	None				VOC Emissions (lb/yr)	255			32	0.0158	0.0000	32	0.02
007--02	Gasoline Tank	Ethyl Benzene	100414	no	0.37478	Weight Percent	None				VOC Emissions (lb/yr)	255			1	0.0005	0.0000	1	0.00
007--02	Gasoline Tank	Hexane	110543	no	24.76	Weight Percent	None				VOC Emissions (lb/yr)	255			63	0.0316	0.0000	63	0.03
007--02	Gasoline Tank	Methyl tert butyl ether	1634044	no	2.453	Weight Percent	None				VOC Emissions (lb/yr)	255			6	0.0031	0.0000	6	0.00
007--02	Gasoline Tank	Toluene	108883	no	0.876	Weight Percent	None				VOC Emissions (lb/yr)	255			2	0.0011	0.0000	2	0.00
007--02	Gasoline Tank	VOC	VOC	yes			None								255	0.1275	0.0000	255	0.13
007--02	Gasoline Tank	Xylenes	1330207	no	4.357	Weight Percent	None				VOC Emissions (lb/yr)	255			11	0.0056	0.0000	11	0.01
007--03	carbon paste pan mill	VOC	VOC	yes	0.00375	lb/lb of paste used	None				Carbon paste used	2,040,000			7650	3.8250	0.0000	7650	3.825000
007--05	no.3 FCE remelts	PM10	PM10	yes	0.013	lb/ton	Building	0.7	0.9999	None	No. 3 Furnace Slag Production (lb/yr)	7,263,862			14	0.0071	0.6999	47.2	0.02
007--05	no.3 FCE remelts	PM2.5	PM2.5	yes	0.0078	lb/ton	Building	0.7	0.9999	None		7,263,862			9	0.0043	0.6999	28.3	0.01
007--05	no.3 FCE remelts	TSP (Particulate)	PT	yes	0.026	lb/ton	Building	0.7	0.9999	None		7,263,862			28	0.0142	0.6999	94.4	0.05
007--06	no.6 & 7 FCE remelts	PM10	PM10	yes	0.013	lb/ton	Building	0.7	0.9999	None	No. 6 & 7 Furnace Slag Production (lb/yr)	10,895,794			21	0.0106	0.6999	70.8	0.04
007--06	no.6 & 7 FCE remelts	PM2.5	PM2.5	yes	0.0078	lb/ton	Building	0.7	0.9999	None		10,895,794			13	0.0064	0.6999	42.5	0.02
007--06	no.6 & 7 FCE remelts	TSP (Particulate)	PT	yes	0.026	lb/ton	Building	0.7	0.9999	None		10,895,794			43	0.0213	0.6999	141.6	0.07
007--08	no.14 and 15 FCE remelts	PM10	PM10	yes	0.013	lb/ton	Building	0.7	0.9999	None	No. 14 and 15 Furnace Slag Production (lb/yr)	9,179,333			18	0.0090	0.6999	59.7	0.03
007--08	no.14 and 15 FCE remelts	PM2.5	PM2.5	yes	0.0078	lb/ton	Building	0.7	0.9999	None		9,179,333			11	0.0054	0.6999	35.8	0.02
007--08	no.14 and 15 FCE remelts	TSP (Particulate)	PT	yes	0.026	lb/ton	Building	0.7	0.9999	None		9,179,333			36	0.0179	0.6999	119.3	0.06
007--09	misc. heating units (space heaters)	Ammonia	7664417	no	3.2E+00	lb/10 <sup>6</sup> scf	None				Natural Gas used per year	468.00			1498	0.7488	0.0000	1498	0.75
007--09	misc. heating units (space heaters)	anthracene	120127	no	1.2E-06	lb/10 <sup>6</sup> scf	None					468.00			0	0.0000	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Arsenic	7440382	no	2.0E-04	lb/10 <sup>6</sup> scf	None					468.00			0	0.0000	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Barium	BAC	no	4.4E-03	lb/10 <sup>6</sup> scf	None					468.00			2	0.0010	0.0000	2	0.00
007--09	misc. heating units (space heaters)	Benzene	71432	no	2.1E-03	lb/10 <sup>6</sup> scf	None					468.00			1	0.0005	0.0000	1	0.00
007--09	misc. heating units (space heaters)	benzo(g,h,i)perylene	191242	no	2.4E-06	lb/10 <sup>6</sup> scf	None					468.00			0	0.0000	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Beryllium	7440417	no	1.2E-05	lb/10 <sup>6</sup> scf	None					468.00			0	0.0000	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Cadmium	7440439	no	1.1E-03	lb/10 <sup>6</sup> scf	None					468.00			1	0.0003	0.0000	1	0.00
007--09	misc. heating units (space heaters)	Carbon Dioxide	124389	no	1.2E+05	lb/10 <sup>6</sup> scf	None					468.00			56160000	28080.0000	0.0000	56160000	28,080.00

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007--09	misc. heating units (space heaters)	Chromium	7440473	no	1.4E-03	lb/10 <sup>6</sup> scf	None					468.00			1	0.0003	0.0000	1	0.00
007--09	misc. heating units (space heaters)	CO	CO	yes	40	lb/10 <sup>6</sup> scf	None					468.00			18720	9.3600	0.0000	18720	9.36
007--09	misc. heating units (space heaters)	Cobalt	7440484	no	8.4E-05	lb/10 <sup>6</sup> scf	None					468.00			0	0.0000	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Copper	CUC	no	8.5E-04	lb/10 <sup>6</sup> scf	None					468.00			0	0.0002	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Dichlorobenzene	106467	no	1.2E-03	lb/10 <sup>6</sup> scf	None					468.00			1	0.0003	0.0000	1	0.00
007--09	misc. heating units (space heaters)	Formaldehyde	50000	no	7.5E-02	lb/10 <sup>6</sup> scf	None					468.00			35	0.0176	0.0000	35	0.02
007--09	misc. heating units (space heaters)	Hexane	110543	no	1.8E+00	lb/10 <sup>6</sup> scf	None					468.00			842	0.4212	0.0000	842	0.42
007--09	misc. heating units (space heaters)	Lead	7439921	yes	0.0005	lb/10 <sup>6</sup> scf	None					468.00			0	0.0001	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Lead	7439921	no	5.0E-04	lb/10 <sup>6</sup> scf	None					468.00			0	0.0001	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Lead compounds	PBC	yes	0.0005	lb/10 <sup>6</sup> scf	None					468.00			0	0.0001	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Lead compounds	PBC	no	5.0E-04	lb/10 <sup>6</sup> scf	None					468.00			0	0.0001	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Manganese	7439965	no	3.8E-04	lb/10 <sup>6</sup> scf	None					468.00			0	0.0001	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Mercury	7439976	no	2.6E-04	lb/10 <sup>6</sup> scf	None					468.00			0	0.0001	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Methane	74828	no	2.3E+00	lb/10 <sup>6</sup> scf	None					468.00			1076	0.5382	0.0000	1076	0.54
007--09	misc. heating units (space heaters)	Molybdenium	MOC	no	1.1E-03	lb/10 <sup>6</sup> scf	None					468.00			1	0.0003	0.0000	1	0.00
007--09	misc. heating units (space heaters)	hthalene	91203	no	6.1E-04	lb/10 <sup>6</sup> scf	None					468.00			0	0.0001	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Nickel	7440020	no	2.1E-03	lb/10 <sup>6</sup> scf	None					468.00			1	0.0005	0.0000	1	0.00
007--09	misc. heating units (space heaters)	NOx	10024972	no	2.2E+00	lb/10 <sup>6</sup> scf	None					468.00			1030	0.5148	0.0000	1030	0.51
007--09	misc. heating units (space heaters)	NOx	NO2	yes	94	lb/10 <sup>6</sup> scf	None					468.00			43992	21.9960	0.0000	43992	22.00
007--09	misc. heating units (space heaters)	phenanthrene	85018	no	1.7E-05	lb/10 <sup>6</sup> scf	None					468.00			0	0.0000	0.0000	0	0.00
007--09	misc. heating units (space heaters)	PM10	PM10	yes	1.9	lb/10 <sup>6</sup> scf	None					468.00			889	0.4446	0.0000	889	0.44
007--09	misc. heating units (space heaters)	PM2.5	PM2.5	yes	1.9	lb/10 <sup>6</sup> scf	None					468.00			889	0.4446	0.0000	889	0.44
007--09	misc. heating units (space heaters)	Polycyclic aromatic compounds	PAC	no	3.0E-05	lb/10 <sup>6</sup> scf	None					468.00			0	0.0000	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Polycyclic Organic Matter	250	no	8.8E-05	lb/10 <sup>6</sup> scf	None					468.00			0	0.0000	0.0000	0	0.00
007--09	misc. heating units (space heaters)	Selenium	7782492	no	2.4E-05	lb/10 <sup>6</sup> scf	None					468.00			0	0.0000	0.0000	0	0.00
007--09	misc. heating units (space heaters)	SOx	SO2	yes	0.6	lb/10 <sup>6</sup> scf	None					468.00			281	0.1404	0.0000	281	0.14
007--09	misc. heating units (space heaters)	Toluene	108883	no	3.4E-03	lb/10 <sup>6</sup> scf	None					468.00			2	0.0008	0.0000	2	0.00
007--09	misc. heating units (space heaters)	TSP (Particulate)	PT	yes	1.9	lb/10 <sup>6</sup> scf	None					468.00			889	0.4446	0.0000	889	0.44
007--09	misc. heating units (space heaters)	Vanadium	VAC	no	2.3E-03	lb/10 <sup>6</sup> scf	None					468.00			1	0.0005	0.0000	1	0.00
007--09	misc. heating units (space heaters)	VOC	VOC	yes	5.5	lb/10 <sup>6</sup> scf	None					468.00			2574	1.2870	0.0000	2574	1.29
007--09	misc. heating units (space heaters)	Zinc	ZNC	no	2.9E-02	lb/10 <sup>6</sup> scf	None					26,280.00			762	0.3811	0.0000	762	0.38
007--10	misc. emissions - furnace dig-out (inside bldg (primary crush)	Arsenic	7440382	yes	0.00000	lb/ton	Building	0.7	0.9999	None	FCE material dug-out	1,871			0.00246	0.0000	0.6999	0.0	0.00000409
007--10	misc. emissions - furnace dig-out (load out)	Arsenic	7440382	yes	0.000000	lb/ton	Building	0.7	0.9999	None		1,871			0.00059	0.0000	0.6999	0.0	0.000000982
007--10	misc. emissions - furnace dig-out - unload from storage pile	Arsenic	7440382	yes	0.000000	lb/ton	None					1,871			0.00059	0.0000	0.0000	0	0.000000295
007--10	misc. emissions - furnace dig-out (storage pile: dump to storage)	Arsenic	7440382	yes	0.000000	lb/ton	None					1,871			0.00059	0.0000	0.0000	0	0.000000295
007--10	misc. emissions - furnace dig-out (inside bldg (primary crush)	Chromium	7440473	yes	0.00002	lb/ton	Building	0.7	0.9999	None		1,871			0.03986	0.0000	0.6999	0.1	0.00
007--10	misc. emissions - furnace dig-out (load out)	Chromium	7440473	yes	0.000005	lb/ton	Building	0.7	0.9999	None		1,871			0.00957	0.0000	0.6999	0.0	0.00
007--10	misc. emissions - furnace dig-out - unload from storage pile	Chromium	7440473	yes	0.000005	lb/ton	None					1,871			0.00957	0.0000	0.0000	0	0.00
007--10	misc. emissions - furnace dig-out (storage pile: dump to storage)	Chromium	7440473	yes	0.000005	lb/ton	None					1,871			0.00957	0.0000	0.0000	0	0.00
007--10	misc. emissions - furnace dig-out (inside bldg (primary crush)	Lead	7439921	yes	0.00000	lb/ton	Building	0.7	0.9999	None		1,871			0.0	0.00000	0.6999	0.0	0.00

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007--10	misc. emissions - furnace dig-out (load out)	Lead	7439921	yes	0.000001	lb/ton	Building	0.7	0.9999	None		1,871			0.0	0.00000	0.6999	0.0	0.00
007--10	misc. emissions - furnace dig-out - unload from storage pile	Lead	7439921	yes	0.000001	lb/ton	None					1,871			0.0	0.00000	0.0000	0	0.00
007--10	misc. emissions - furnace dig-out (storage pile: dump to storage)	Lead	7439921	yes	0.000001	lb/ton	None					1,871			0.0	0.00000	0.0000	0	0.00
007--10	misc. emissions - furnace dig-out (inside bldg (primary crush)	Manganese	7439965	yes	0.00011	lb/ton	Building	0.7	0.9999	None		1,871			0.20591	0.0001	0.6999	0.7	0.00
007--10	misc. emissions - furnace dig-out (load out)	Manganese	7439965	yes	0.000026	lb/ton	Building	0.7	0.9999	None		1,871			0.04942	0.0000	0.6999	0.2	0.00
007--10	misc. emissions - furnace dig-out - unload from storage pile	Manganese	7439965	yes	0.000026	lb/ton	None					1,871			0.04942	0.0000	0.0000	0	0.00
007--10	misc. emissions - furnace dig-out (storage pile: dump to storage)	Manganese	7439965	yes	0.000026	lb/ton	None					1,871			0.04942	0.0000	0.0000	0	0.00
007--10	misc. emissions - furnace dig-out (inside bldg (primary crush)	Mercury	7439976	yes	0.00000	lb/ton	Building	0.7	0.9999	None		1,871			0.0	0.00000	0.6999	0.0	0.00
007--10	misc. emissions - furnace dig-out (load out)	Mercury	7439976	yes	0.000001	lb/ton	Building	0.7	0.9999	None		1,871			0.0	0.00000	0.6999	0.0	0.00
007--10	misc. emissions - furnace dig-out - unload from storage pile	Mercury	7439976	yes	0.000001	lb/ton	None					1,871			0.0	0.00000	0.0000	0	0.00
007--10	misc. emissions - furnace dig-out (storage pile: dump to storage)	Mercury	7439976	yes	0.000001	lb/ton	None					1,871			0.0	0.00000	0.0000	0	0.00
007--10	misc. emissions - furnace dig-out (inside bldg (primary crush)	Nickel	7440020	yes	0.00003	lb/ton	Building	0.7	0.9999	None		1,871			0.1	0.00003	0.6999	0.2	0.00
007--10	misc. emissions - furnace dig-out (load out)	Nickel	7440020	yes	0.000007	lb/ton	Building	0.7	0.9999	None		1,871			0.0	0.00001	0.6999	0.0	0.00
007--10	misc. emissions - furnace dig-out - unload from storage pile	Nickel	7440020	yes	0.000007	lb/ton	None					1,871			0.0	0.00001	0.0000	0	0.00
007--10	misc. emissions - furnace dig-out (storage pile: dump to storage)	Nickel	7440020	yes	0.000007	lb/ton	None					1,871			0.0	0.00001	0.0000	0	0.00
007--10	misc. emissions - furnace dig-out (inside bldg (primary crush)	Phosphorus	7723140	yes	0.00005	lb/ton	Building	0.7	0.9999	None		1,871			0.09	0.00004	0.6999	0.3	0.00
007--10	misc. emissions - furnace dig-out (load out)	Phosphorus	7723140	yes	0.000011	lb/ton	Building	0.7	0.9999	None		1,871			0.02	0.00001	0.6999	0.1	0.00
007--10	misc. emissions - furnace dig-out - unload from storage pile	Phosphorus	7723140	yes	0.000011	lb/ton	None					1,871			0.02	0.00001	0.0000	0	0.00
007--10	misc. emissions - furnace dig-out (storage pile: dump to storage)	Phosphorus	7723140	yes	0.000011	lb/ton	None					1,871			0.02	0.00001	0.0000	0	0.00
007--10	misc. emissions - furnace dig-out (inside bldg (primary crush)	PM10	PM10	yes	0.05	lb/ton	Building	0.7	0.9999	None		1,871			28.07155	0.0140	0.6999	93.6	0.05
007--10	misc. emissions - furnace dig-out (load out)	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	None		1,871			33.68586	0.0168	0.6999	112.3	0.06
007--10	misc. emissions - furnace dig-out - unload from storage pile	PM10	PM10	yes	0.06	lb/ton	None					1,871			112.26000	0.0561	0.0000	112	0.06
007--10	misc. emissions - furnace dig-out (storage pile: dump to storage)	PM10	PM10	yes	0.06	lb/ton	None					1,871			112	0.0561	0.0000	112	0.06
007--10	misc. emissions - furnace dig-out (inside bldg (primary crush)	PM2.5	PM2.5	yes	0.15	lb/ton	Building	0.7	0.9999	None		1,871			84.21465	0.0421	0.6999	280.7	0.14
007--10	misc. emissions - furnace dig-out (load out)	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	None		1,871			20.21151	0.0101	0.6999	67.4	0.03
007--10	misc. emissions - furnace dig-out - unload from storage pile	PM2.5	PM2.5	yes	0.036	lb/ton	None					1,871			67.35600	0.0337	0.0000	67	0.03
007--10	misc. emissions - furnace dig-out (storage pile: dump to storage)	PM2.5	PM2.5	yes	0.036	lb/ton	None					1,871			67.35600	0.0337	0.0000	67	0.03
007--10	misc. emissions - furnace dig-out (inside bldg (primary crush)	TSP (Particulate)	PT	yes	0.50	lb/ton	Building	0.7	0.9999	None		1,871			280.71549	0.1404	0.6999	935.5	0.47
007--10	misc. emissions - furnace dig-out (load out)	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	None		1,871			67.37172	0.0337	0.6999	224.5	0.11
007--10	misc. emissions - furnace dig-out - unload from storage pile	TSP (Particulate)	PT	yes	0.12	lb/ton	None					1,871			224.52000	0.1123	0.0000	225	0.11
007--10	misc. emissions - furnace dig-out (storage pile: dump to storage)	TSP (Particulate)	PT	yes	0.12	lb/ton	None					1,871			224.52000	0.1123	0.0000	225	0.11
007--10	misc. emissions - service bldg. boilers	CO	CO	yes	84	lb/10 <sup>6</sup> scf	None				Natural Gas used per year	142			11928	5.9640	0.0000	11928	5.96
007--10	misc. emissions - service bldg. boilers	NOx	NO2	yes	100	lb/10 <sup>6</sup> scf	None					142			14200	7.1000	0.0000	14200	7.10
007--10	misc. emissions - service bldg. boilers	PM10	PM10	yes	1.9	lb/10 <sup>6</sup> scf	None					142			270	0.1349	0.0000	270	0.13
007--10	misc. emissions - service bldg. boilers	PM2.5	PM2.5	yes	1.9	lb/10 <sup>6</sup> scf	None					142			270	0.1349	0.0000	270	0.13
007--10	misc. emissions - service bldg. boilers	SOx	SO2	yes	0.6	lb/10 <sup>6</sup> scf	None					142			85	0.0426	0.0000	85	0.04
007--10	misc. emissions - service bldg. boilers	TSP (Particulate)	PT	yes	1.9	lb/10 <sup>6</sup> scf	None					142			270	0.1349	0.0000	270	0.13
007--10	misc. emissions - service bldg. boilers	VOC	VOC	yes	5.5	lb/10 <sup>6</sup> scf	None					142			781	0.3905	0.0000	781	0.39
007--14	no.9 FCE remelts	PM10	PM10	yes	0.013	lb/ton	Building	0.7	0.9999	None	No. 9 Furnace Slag Production (lb/yr)	0			0	0.0000	0.6999	0.0	0.000000
007--14	no.9 FCE remelts	PM2.5	PM2.5	yes	0.0078	lb/ton	Building	0.7	0.9999	None		0			0	0.0000	0.6999	0.0	0.000000



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007--14	no.9 FCE remelts	TSP (Particulate)	PT	yes	0.026	lb/ton	Building	0.7	0.9999	None		0			0	0.0000	0.6999	0.0	0.000000
	slurry system operations (process is enclosed)	TSP (Particulate)	PT	yes	0	lb/ton	None				slurry system throughput	669			0	0.0000	0.0000	0	0.000000
	DM-1 (dry microsilica class. baghouse)	PM10	PM10	yes	0.23	lb/ton	Baghouse	0.99	0.99	None	Total Dry Microsilica throughput	30,000			68	0.0342	0.9801	3432.7	1.72
	DM-1 (dry microsilica class. baghouse)	PM2.5	PM2.5	yes	0.108	lb/ton	Baghouse	0.99	0.99	None		30,000			32	0.0160	0.9801	1611.9	0.81
	DM-1 (dry microsilica class. baghouse)	TSP (Particulate)	PT	yes	0.36	lb/ton	Baghouse	0.99	0.99	None		30,000			107	0.0535	0.9801	5372.9	2.69
	DM-1 (dry microsilica class. baghouse)	PM10	PM10	yes	0.23	lb/ton	Building	0.7	0.9999	0.99		30,000			21	0.0104	0.6999	69.0	0.03
	DM-1 (dry microsilica class. baghouse)	PM2.5	PM2.5	yes	0.108	lb/ton	Building	0.7	0.9999	0.99		30,000			10	0.0049	0.6999	32.4	0.02
	DM-1 (dry microsilica class. baghouse)	TSP (Particulate)	PT	yes	0.36	lb/ton	Building	0.7	0.9999	0.99		30,000			32	0.0162	0.6999	108.0	0.05
	DM-2 (dry microsilica bldg. central bag.)	PM10	PM10	yes	0.24	lb/ton	Baghouse	0.99	0.99	None	Total Dry Microsilica throughput	30,000			71	0.0356	0.9801	3581.9	1.79
	DM-2 (dry microsilica bldg. central bag.)	PM2.5	PM2.5	yes	0.06	lb/ton	Baghouse	0.99	0.99	None		30,000			18	0.0089	0.9801	895.5	0.45
	DM-2 (dry microsilica bldg. central bag.)	TSP (Particulate)	PT	yes	0.24	lb/ton	Baghouse	0.99	0.99	None		30,000			71	0.0356	0.9801	3581.9	1.79
	DM-2 (dry microsilica bldg. central bag.)	PM10	PM10	yes	0.2	lb/ton	Building	0.7	0.9999	0.99		30,000			18	0.0090	0.6999	60.0	0.03
	DM-2 (dry microsilica bldg. central bag.)	PM2.5	PM2.5	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		30,000			5	0.0027	0.6999	18.0	0.01
	DM-2 (dry microsilica bldg. central bag.)	TSP (Particulate)	PT	yes	0.2	lb/ton	Building	0.7	0.9999	0.99		30,000			18	0.0090	0.6999	60.0	0.03
	DS-1 (densification silo no. 1)	PM10	PM10	yes	0.23	lb/ton	Baghouse	0.99	0.99	None	Densification Silo No. 1 throughput (DS-1)	15,000			34	0.0171	0.9801	1716.3	0.86
	DS-1 (densification silo no. 1)	PM2.5	PM2.5	yes	0.108	lb/ton	Baghouse	0.99	0.99	None		15,000			16	0.0080	0.9801	805.9	0.40
	DS-1 (densification silo no. 1)	TSP (Particulate)	PT	yes	0.36	lb/ton	Baghouse	0.99	0.99	None		15,000			53	0.0267	0.9801	2686.4	1.34
	DS-1 (densification silo no. 1)	PM10	PM10	yes	0.23	lb/ton	Building	0.7	0.9999	0.99		15,000			10	0.0052	0.6999	34.5	0.02
	DS-1 (densification silo no. 1)	PM2.5	PM2.5	yes	0.108	lb/ton	Building	0.7	0.9999	0.99		15,000			5	0.0024	0.6999	16.2	0.01
	DS-1 (densification silo no. 1)	TSP (Particulate)	PT	yes	0.36	lb/ton	Building	0.7	0.9999	0.99		15,000			16	0.0081	0.6999	54.0	0.03
	DS-2 (densification silo no. 2)	PM10	PM10	yes	0.23	lb/ton	Baghouse	0.99	0.99	None	Densification Silo No. 2 throughput (DS-2)	15,000			34	0.0171	0.9801	1716.3	0.86
	DS-2 (densification silo no. 2)	PM2.5	PM2.5	yes	0.108	lb/ton	Baghouse	0.99	0.99	None		15,000			16	0.0080	0.9801	805.9	0.40
	DS-2 (densification silo no. 2)	TSP (Particulate)	PT	yes	0.36	lb/ton	Baghouse	0.99	0.99	None		15,000			53	0.0267	0.9801	2686.4	1.34
	DS-2 (densification silo no. 2)	PM10	PM10	yes	0.23	lb/ton	Building	0.7	0.9999	0.99		15,000			10	0.0052	0.6999	34.5	0.02
	DS-2 (densification silo no. 2)	PM2.5	PM2.5	yes	0.108	lb/ton	Building	0.7	0.9999	0.99		15,000			5	0.0024	0.6999	16.2	0.01
	DS-2 (densification silo no. 2)	TSP (Particulate)	PT	yes	0.36	lb/ton	Building	0.7	0.9999	0.99		15,000			16	0.0081	0.6999	54.0	0.03
	C3P Fine Screen - belt conveyor	PM10	PM10	yes	0.06	lb/ton	Water scrubber	0.99	0.99	None	C3P Fine Screen	1,900			1	0.0006	0.9801	56.7	0.028357
	C3P Fine Screen - material to feed bin	PM10	PM10	yes	0.06	lb/ton	Water scrubber	0.99	0.99	None		1,900			1	0.0006	0.9801	56.7	0.028357
	C3P Fine Screen - product loading	PM10	PM10	yes	0.06	lb/ton	Water scrubber	0.99	0.99	None		1,900			1	0.0006	0.9801	56.7	0.028357
	C3P Fine Screen - screen	PM10	PM10	yes	0.06	lb/ton	Water scrubber	0.99	0.99	None		1,900			1	0.0006	0.9801	56.7	0.028357
	C3P Fine Screen - vibrating feeder	PM10	PM10	yes	0.06	lb/ton	Water scrubber	0.99	0.99	None		1,900			1	0.0006	0.9801	56.7	0.028357
	C3P Fine Screen - belt conveyor	PM2.5	PM2.5	yes	0.036	lb/ton	Water scrubber	0.99	0.99	None		1,900			1	0.0003	0.9801	34.0	0.017014
	C3P Fine Screen - material to feed bin	PM2.5	PM2.5	yes	0.036	lb/ton	Water scrubber	0.99	0.99	None		1,900			1	0.0003	0.9801	34.0	0.017014
	C3P Fine Screen - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Water scrubber	0.99	0.99	None		1,900			1	0.0003	0.9801	34.0	0.017014
	C3P Fine Screen - screen	PM2.5	PM2.5	yes	0.036	lb/ton	Water scrubber	0.99	0.99	None		1,900			1	0.0003	0.9801	34.0	0.017014
	C3P Fine Screen - vibrating feeder	PM2.5	PM2.5	yes	0.036	lb/ton	Water scrubber	0.99	0.99	None		1,900			1	0.0003	0.9801	34.0	0.017014
	C3P Fine Screen - belt conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Water scrubber	0.99	0.99	None		1,900			2	0.0011	0.9801	113.4	0.056714
	C3P Fine Screen - material to feed bin	TSP (Particulate)	PT	yes	0.12	lb/ton	Water scrubber	0.99	0.99	None		1,900			2	0.0011	0.9801	113.4	0.056714
	C3P Fine Screen - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Water scrubber	0.99	0.99	None		1,900			2	0.0011	0.9801	113.4	0.056714
	C3P Fine Screen - screen	TSP (Particulate)	PT	yes	0.12	lb/ton	Water scrubber	0.99	0.99	None		1,900			2	0.0011	0.9801	113.4	0.056714

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	C3P Fine Screen - vibrating feeder	TSP (Particulate)	PT	yes	0.12	lb/ton	Water scrubber	0.99	0.99	None		1,900			2	0.0011	0.9801	113.4	0.056714
	C3P Fine Screen - belt conveyor	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		1,900			0	0.0002	0.6999	1.1	0.000570
	C3P Fine Screen - material to feed bin	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		1,900			0	0.0002	0.6999	1.1	0.000570
	C3P Fine Screen - product loading	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		1,900			0	0.0002	0.6999	1.1	0.000570
	C3P Fine Screen - screen	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		1,900			0	0.0002	0.6999	1.1	0.000570
	C3P Fine Screen - vibrating feeder	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999	0.99		1,900			0	0.0002	0.6999	1.1	0.000570
	C3P Fine Screen - belt conveyor	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		1,900			0	0.0001	0.6999	0.7	0.000342
	C3P Fine Screen - material to feed bin	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		1,900			0	0.0001	0.6999	0.7	0.000342
	C3P Fine Screen - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		1,900			0	0.0001	0.6999	0.7	0.000342
	C3P Fine Screen - screen	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		1,900			0	0.0001	0.6999	0.7	0.000342
	C3P Fine Screen - vibrating feeder	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999	0.99		1,900			0	0.0001	0.6999	0.7	0.000342
	C3P Fine Screen - belt conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		1,900			1	0.0003	0.6999	2.3	0.001140
	C3P Fine Screen - material to feed bin	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		1,900			1	0.0003	0.6999	2.3	0.001140
	C3P Fine Screen - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		1,900			1	0.0003	0.6999	2.3	0.001140
	C3P Fine Screen - screen	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		1,900			1	0.0003	0.6999	2.3	0.001140
	C3P Fine Screen - vibrating feeder	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999	0.99		1,900			1	0.0003	0.6999	2.3	0.001140
	DS-14 (densification silo no. 14)	PM10	PM10	yes	0.23	lb/ton	Baghouse	0.99	0.99	None	Densification Silo No. 14 throughput (DS-14)	18,400			42	0.0209	0.9801	2105.4	1.05
	DS-14 (densification silo no. 14)	PM2.5	PM2.5	yes	0.108	lb/ton	Baghouse	0.99	0.99	None		18,400			20	0.0098	0.9801	988.6	0.49
	DS-14 (densification silo no. 14)	TSP (Particulate)	PT	yes	0.36	lb/ton	Baghouse	0.99	0.99	None		18,400			66	0.0328	0.9801	3295.4	1.65
	DS-14 (densification silo no. 14)	PM10	PM10	yes	0.23	lb/ton	Building	0.7	0.9999	0.99		18,400			13	0.0063	0.6999	42.3	0.02
	DS-14 (densification silo no. 14)	PM2.5	PM2.5	yes	0.108	lb/ton	Building	0.7	0.9999	0.99		18,400			6	0.0030	0.6999	19.9	0.01
	DS-14 (densification silo no. 14)	TSP (Particulate)	PT	yes	0.36	lb/ton	Building	0.7	0.9999	0.99		18,400			20	0.0099	0.6999	66.2	0.03
	CX Bagging Operations - Bagging	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99		CX Bagging throughput	0			0.0	0.0000	0.9801	0.0	0.000000
	CX Bagging Operations - Dump Material to Skip	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0.0	0.0000	0.9801	0.0	0.000000
	CX Bagging Operations - Vibratory Feeder	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0.0	0.0000	0.9801	0.0	0.000000
	CX Bagging Operations - Bagging	PM2.5	PM2.5	yes	0.04	lb/ton	Baghouse	0.99	0.99			0			0.0	0.0000	0.9801	0.0	0.000000
	CX Bagging Operations - Dump Material to Skip	PM2.5	PM2.5	yes	0.04	lb/ton	Baghouse	0.99	0.99			0			0.0	0.0000	0.9801	0.0	0.000000
	CX Bagging Operations - Vibratory Feeder	PM2.5	PM2.5	yes	0.04	lb/ton	Baghouse	0.99	0.99			0			0.0	0.0000	0.9801	0.0	0.000000
	CX Bagging Operations - Bagging	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0.0	0.0000	0.9801	0.0	0.000000
	CX Bagging Operations - Dump Material to Skip	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0.0	0.0000	0.9801	0.0	0.000000
	CX Bagging Operations - Vibratory Feeder	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0.0	0.0000	0.9801	0.0	0.000000
	CX Bagging Operations - Bagging	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.0	0.0000	0.6999	0.0	0.000000
	CX Bagging Operations - Dump Material to Skip	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.0	0.0000	0.6999	0.0	0.000000
	CX Bagging Operations - Vibratory Feeder	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.0	0.0000	0.6999	0.0	0.000000
	CX Bagging Operations - Dump Skip to Hopper (unabated)	PM10	PM10	yes	0.06	lb/ton	None					0			0	0.0000	0.0000	0	0.000000
	CX Bagging Operations - Bagging	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999			0			0.0	0.0000	0.6999	0.0	0.000000
	CX Bagging Operations - Dump Material to Skip	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999			0			0.0	0.0000	0.6999	0.0	0.000000
	CX Bagging Operations - Vibratory Feeder	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999			0			0.0	0.0000	0.6999	0.0	0.000000
	CX Bagging Operations - Dump Skip to Hopper (unabated)	PM2.5	PM2.5	yes	0.04	lb/ton	None					0			0	0.0000	0.0000	0	0.000000
	CX Bagging Operations - Bagging	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.0	0.0000	0.6999	0.0	0.000000

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	CX Bagging Operations - Dump Material to Skip	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.0	0.0000	0.6999	0.0	0.000000
	CX Bagging Operations - Vibratory Feeder	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.0	0.0000	0.6999	0.0	0.000000
	CX Bagging Operations - Dump Skip to Hopper (unabated)	TSP (Particulate)	PT	yes	0.12	lb/ton	None					0			0	0.0000	0.0000	0	0.000000
	CX Pelletizer Operations - Bin Loading	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99		CX Pelletizer operations thruput	0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Conveyor	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99		CX Pelletizer operations thruput	0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Conveyor	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Dryer	PM10	PM10	yes	12.00	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Dryer Conveyor	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Dump to Mixer	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Press Feed Hopper	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Product Loading	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Screen Box	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Weigh Hopper Loading	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Bin Loading	PM2.5	PM2.5	yes	0.04	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Conveyor	PM2.5	PM2.5	yes	0.04	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Conveyor	PM2.5	PM2.5	yes	0.04	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Dryer	PM2.5	PM2.5	yes	5.91	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Dryer Conveyor	PM2.5	PM2.5	yes	0.04	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Dump to Mixer	PM2.5	PM2.5	yes	0.04	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Press Feed Hopper	PM2.5	PM2.5	yes	0.04	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Product Loading	PM2.5	PM2.5	yes	0.04	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Screen Box	PM2.5	PM2.5	yes	0.04	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Weigh Hopper Loading	PM2.5	PM2.5	yes	0.04	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Bin Loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Dryer	TSP (Particulate)	PT	yes	19.70	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Dryer Conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Dump to Mixer	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Press Feed Hopper	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Product Loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Screen Box	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Weigh Hopper Loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0.000	0.0000	0.9801	0.0	0.000000
	CX Pelletizer Operations - Bin Loading	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Conveyor	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Conveyor	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Dryer	PM10	PM10	yes	12.00	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Dryer Conveyor	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Dump to Mixer	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Press Feed Hopper	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
	CX Pelletizer Operations - Product Loading	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Screen Box	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Weigh Hopper Loading	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Bin Loading	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Conveyor	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Conveyor	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Dryer	PM2.5	PM2.5	yes	5.91	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Dryer Conveyor	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Dump to Mixer	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Press Feed Hopper	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Product Loading	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Screen Box	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Weigh Hopper Loading	PM2.5	PM2.5	yes	0.04	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Bin Loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Dryer	TSP (Particulate)	PT	yes	19.70	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Dryer Conveyor	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Dump to Mixer	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Press Feed Hopper	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Product Loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Screen Box	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	CX Pelletizer Operations - Weigh Hopper Loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.000	0.0000	0.6999	0.0	0.000000
	C8P-Mechanical cleaning - cleaning table	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99		C8P-Mechanical cleaning throughput	0			0	0.0000	0.9801	0.0	0.000000
	C8P-Mechanical cleaning - loading to sizing table	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
	C8P-Mechanical cleaning - product loading	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
	C8P-Mechanical cleaning - screening	PM10	PM10	yes	0.06	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
	C8P-Mechanical cleaning - cleaning table	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
	C8P-Mechanical cleaning - loading to sizing table	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
	C8P-Mechanical cleaning - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
	C8P-Mechanical cleaning - screening	PM2.5	PM2.5	yes	0.036	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
	C8P-Mechanical cleaning - cleaning table	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
	C8P-Mechanical cleaning - loading to sizing table	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
	C8P-Mechanical cleaning - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
	C8P-Mechanical cleaning - screening	TSP (Particulate)	PT	yes	0.12	lb/ton	Baghouse	0.99	0.99			0			0	0.0000	0.9801	0.0	0.000000
	C8P-Mechanical cleaning - cleaning table	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.00	0.0000	0.6999	0.0	0.000000
	C8P-Mechanical cleaning - loading to sizing table	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.00	0.0000	0.6999	0.0	0.000000
	C8P-Mechanical cleaning - product loading	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.00	0.0000	0.6999	0.0	0.000000
	C8P-Mechanical cleaning - screening	PM10	PM10	yes	0.06	lb/ton	Building	0.7	0.9999			0			0.00	0.0000	0.6999	0.0	0.000000
	C8P-Mechanical cleaning - Unloading	PM10	PM10	yes	0.06	lb/ton	None					0			0	0.0000	0.0000	0	0.000000

Title V ID	Emission Unit Description	Pollutant Name	CAS No. or AEI Code	Criteria Pollutant	Emission Factor	Emission Factor Units	Control Device	Control Device Eff.	Capture Eff. #1	Capture Eff. #2	Production Information #1 description	Production Information #1 value	Production Information #2 description (if needed)	Production Information #2 value (if needed)	Calculated Emissions (lb/yr)	Calculated Emissions (TPY)	Overall eff	Uncontrolled Emissions (lb/yr)	Uncontrolled Emissions (TPY)
	C8P-Mechanical cleaning - cleaning table	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999			0			0.00	0.0000	0.6999	0.0	0.000000
	C8P-Mechanical cleaning - loading to sizing table	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999			0			0.00	0.0000	0.6999	0.0	0.000000
	C8P-Mechanical cleaning - product loading	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999			0			0.00	0.0000	0.6999	0.0	0.000000
	C8P-Mechanical cleaning - screening	PM2.5	PM2.5	yes	0.036	lb/ton	Building	0.7	0.9999			0			0.00	0.0000	0.6999	0.0	0.000000
	C8P-Mechanical cleaning - Sledging (Primary Crushing)	PM2.5	PM2.5	yes	0.05	lb/ton	None					0			0	0.0000	0.0000	0	0.000000
	C8P-Mechanical cleaning - Unloading	PM2.5	PM2.5	yes	0.036	lb/ton	None					0			0	0.0000	0.0000	0	0.000000
	C8P-Mechanical cleaning - cleaning table	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.00	0.0000	0.6999	0.0	0.000000
	C8P-Mechanical cleaning - loading to sizing table	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.00	0.0000	0.6999	0.0	0.000000
	C8P-Mechanical cleaning - product loading	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.00	0.0000	0.6999	0.0	0.000000
	C8P-Mechanical cleaning - screening	TSP (Particulate)	PT	yes	0.12	lb/ton	Building	0.7	0.9999			0			0.00	0.0000	0.6999	0.0	0.000000
	C8P-Mechanical cleaning - Sledging (Primary Crushing)	TSP (Particulate)	PT	yes	0.05	lb/ton	None					0			0	0.0000	0.0000	0	0.000000
	C8P-Mechanical cleaning - Sledging (Primary Crushing)	TSP (Particulate)	PT	yes	0.50	lb/ton	None					0			0	0.0000	0.0000	0	0.000000
	C8P-Mechanical cleaning - Unloading	TSP (Particulate)	PT	yes	0.12	lb/ton	None					0			0	0.0000	0.0000	0	0.000000
	Safety Kleen Parts Cleaner	1,1,1 Trichloroethane	71556	no	0.5	(Wt. %)	None				VOC Emissions (lb/yr)	0			0	0.0000	0.0000	0	0.000000
	Safety Kleen Parts Cleaner	Ethyl Benzene	100414	no	0.5	(Wt. %)	None				VOC Emissions (lb/yr)	0			0	0.0000	0.0000	0	0.000000
	Safety Kleen Parts Cleaner	Tetrachloroethylene	127184	no	0.5	(Wt. %)	None				VOC Emissions (lb/yr)	0			0	0.0000	0.0000	0	0.000000
	Safety Kleen Parts Cleaner	Toluene	108883	no	0.5	(Wt. %)	None				VOC Emissions (lb/yr)	0			0	0.0000	0.0000	0	0.000000
	Safety Kleen Parts Cleaner	VOC	VOC	yes	6.55	lb/gal	None				Solvent In	0	Solvent out	0	0	0.0000	0.0000	0	0.000000
	Safety Kleen Parts Cleaner	Xylenes	1330207	no	1	(Wt. %)	None				VOC Emissions (lb/yr)	0			0	0.0000	0.0000	0	0.000000
	Dump Station (behind Mix House) - Silicone	PM10	PM10	yes	0.004	lb/ton	None				Silicon metal handled	0.00			0	0.0000	0.0	0	0.00
	Dump Station (behind Mix House) - Silicone	PM2.5	PM2.5	yes	0.004	lb/ton	None					0.00			0	0.0000	0.0	0	0.00
	Dump Station (behind Mix House) - Silicone	TSP (Particulate)	PT	yes	0.01	lb/ton	None					0.00			0	0.0000	0.0	0	0.00