



State of Ohio Environmental Protection Agency

Street Address:

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P.O. Box 1049  
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL  
JEFFERSON COUNTY  
Application No: 06-06893**

**CERTIFIED MAIL**

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

**DATE:** 8/13/2002

Olympic Mill Services  
Jim Shewell  
1014 W Ninth St  
King of Prussia, PA 19406

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

SEDO



**Permit To Install  
Terms and Conditions**

**Issue Date: 8/13/2002  
Effective Date: 8/13/2002**

**FINAL PERMIT TO INSTALL 06-06893**

Application Number: 06-06893

APS Premise Number: 0641090127

Permit Fee: **\$1000**

Name of Facility: Olympic Mill Services

Person to Contact: Jim Shewell

Address: 1014 W Ninth St  
King of Prussia, PA 19406

Location of proposed air contaminant source(s) [emissions unit(s)]:

**Commercial Ave and Cool Springs Rd  
Mingo Junction, Ohio**

Description of proposed emissions unit(s):

**Modification of the BF BOF slag processing plant.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. State and Federally Enforceable Permit To Install General Terms and Conditions

#### 1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - i. The date, place (as defined in the permit), and time of sampling or measurements.
  - ii. The date(s) analyses were performed.
  - iii. The company or entity that performed the analyses.
  - iv. The analytical techniques or methods used.
  - v. The results of such analyses.
  - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.10 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

## **2. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

## **3. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

## **4. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

## **5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

## **6. General Requirements**

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

## **7. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit To Install fees within 30 days after the issuance of this Permit To Install.

## 8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

## 9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

- ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

#### **10. Permit To Operate Application**

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the source(s) covered by this permit.

#### **11. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

#### **12. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**B. State Only Enforceable Permit To Install General Terms and Conditions**

**1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

**2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**3. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**4. Termination of Permit To Install**

This permit to install shall terminate within eighteen months of the effective date of the permit to install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**5. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**6. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**7. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**8. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit To Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

**C. Permit To Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)**  
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	3.48

**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

**A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F014 - Plant material handling operations including conveyors, conveyor transfer points, crusher, and screens Chapter 31 modification replacing PTI #06-06217 issued 08/01/00.	OAC rule 3745-31-05 (A)(3)	Visible particulate emissions (PE) shall not exceed ten per cent opacity as a six-minute average (see A.2.e, below);  PE shall not exceed 4.23 lbs/hr; PE shall not exceed 3.48 tons/yr;
	OAC rule 3745-17-08(B)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08(B)(1);
	OAC rule 3745-17-07(B)	Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.e);  The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:
  - i. All conveyors in the slag processing plant (26) and associated transfer points;
  - ii. All radial stacking conveyor drop points (10);

- iii. 2236 jaw crusher;
- iv. 45" FH cone crusher (2);
- v. SECO 48" x 20' vibrating grizzly feeder;
- vi. SECO 5' x 12' double deck screen;
- vii. Deister Double deck screen;
- viii. SECO 6' x 16' triple deck screen (2);
- ix. SECO 8' x 20' triple deck screen.

**2.b** The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the submitted permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:

material handling operation(s)	control measure(s)
All conveyors and associated transfer points	Use of dedicated water sprays to continuously wet slag throughout processing (each transfer point within the processing plant shall be equipped with a sprayer capable of delivering enough water to meet visible emissions requirements); Minimize drop height
All radial stacking conveyor drop points (10)	Use of dedicated water sprays to continuously wet slag throughout processing (each radial stacking conveyor shall be equipped with a sprayer capable of delivering enough water to meet visible emissions requirements); Minimize drop height
SECO 48" x 20' vibrating grizzly feeder	Use of dedicated water sprays to continuously wet slag feed material to meet visible emissions limitations; Minimize front end loader bucket-to-feeder drop height
All crushers	Use of dedicated continuous water spray at crusher entry point to meet visible emissions limitations; Use of dedicated continuous water spray at crusher exit point to meet visible emissions limitations; Minimize drop height

All screens

Use of dedicated continuous water spray at each screen to meet visible emissions limitations;  
Minimize drop height

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance, as described below.

- 2.c** For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented at all times during operation. If the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that additional control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements, such additional control measures shall be implemented immediately. Any required implementation of the additional control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of these additional control measure(s) is unnecessary.
- 2.d** Specific additional control measures shall be determined by the permittee. Such additional control measures may include increased water application, use of chemical dust suppressant, or shut-down of operations. The use of additional control measures shall, at all times, comply with all air, surface water, ground water, solid waste, and hazardous waste laws and regulations.
- 2.e** Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.

## II. Operational Restrictions

1. All transfer points, screens, and crushers identified in 2.b, above within the processing plant shall be equipped with a dedicated water spray. Water sprays shall be operated continuously at all times of plant operation. In the case of failure or malfunction of any individual water spray, the failure or malfunction shall be reported as described in A.IV.1, below.
2. The permittee shall not exceed a primary feed rate in excess of 928,769 tons of slag per year.
3. The permittee shall not exceed a primary feed rate of 600 tons of slag per hour.

## III. Monitoring and/or Record keeping Requirements

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

material handling operation(s)

minimum inspection frequency

All conveyors and associated transfer points	Monitoring every two hours during use, minimum
All radial stacking conveyor drop points	Monitoring every two hours during use, minimum
All crushers, screens, and feeders	Monitoring every two hours during use, minimum

The above-mentioned inspections shall be performed during representative, normal operating conditions.

The permittee may, upon receipt of written approval from the Ohio EPA Southeast District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

2. In the event of failure or malfunction of a pump affecting any water spray location, or when a malfunction is discovered through monitoring requirements A.III.1, above, the permittee shall evaluate visible emissions from each affected point upon discovery, utilizing Method 9 of 40 CFR 60 Appendix A for no less than two consecutive six-minute averages. Should observations indicate a violation of the visible emission limitation of 10 per cent opacity as a six-minute average, the permittee shall perform one or more of the following until normal control measures are restored:
  - a. utilize portable water sprays at the affected locations;
  - b. shut down the affected sources until repairs are made; and,
  - c. increase water flow to "upstream" conveyors to ensure that slag maintains sufficient moisture to prevent visible emissions violations from points of malfunctioning sprayers.

Immediate shutdown of the source shall eliminate the need to conduct Method 9 visible emission observations.

3. The permittee shall maintain records of the following information:
  - a. the date and time each inspection required in A.III.1, above, was performed, including the name of the individual conducting the inspection;
  - b. the date and time of each inspection where it was determined that a malfunction occurred in any individual water spray or pump servicing the slag processing plant (conveyors, transfer points, drop points, screens, feeder, and/or crushers);
  - c. the record of the Method 9 visible emission evaluation that was recorded per A.III.2, above. If the source was shut down as a method of eliminating emissions, such actions shall be noted in the log.

- d. the date and time of each inspection where it was determined by the permittee that it was necessary to implement additional control measure(s);
- e. the dates and times that the additional control measure(s) was (were) implemented;
- f. a description of the additional controls implemented; and,
- g. on a calendar quarter basis, the total number of days additional control measure(s) was (were) implemented.

The information in 4.g shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

4. The permittee shall maintain hourly records of the actual amount of slag, in tons per hour, loaded into the primary feeder. These records shall also reflect the method utilized to obtain the actual hourly measurement.
5. The permittee shall, on an annual basis, calculate the actual total amount of slag loaded into the primary feeder. This total shall be calculated for the calendar year.
6. The permittee shall conduct visible emissions readings on each individual transfer point, crusher, and screen that is part of source F014 on a monthly basis. Each individual transfer point, crusher, and screen shall be evaluated using USEPA Method 9 of 40 CFR 60 Appendix A for a 12-minute period (two consecutive averages), minimum. The readings shall be performed and certified by a qualified individual during normal operating conditions. The results of these readings shall be recorded on approved forms and kept on file for a period of not less than three years. Each form, at a minimum, shall contain all information described in 40 CFR 60 Appendix A, Method 9.

#### **IV. Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each date and time that an inspection was not performed by the required frequency;
  - b. each date and time that an inspection indicated a malfunction of any individual water spray or pump;

- c. each instance when an additional control measure, that was to be performed as a result of an inspection, was not implemented;
  - d. each time that visible emissions observations that were to be conducted as part of an inspection were not conducted; and
  - e. the dates and times that replacement or repair parts found to be necessary as part of an inspection were ordered and installed.
2. The permittee shall submit deviation reports that identify each hour during which the actual primary feed rate exceeded 600 tons of slag per hour and/or any hour during which the actual feed rate was not measured and recorded.
  3. The permittee shall submit deviation reports indicating each opacity observation, performed per A.III.6, above, that exceeds the 10 per cent opacity as a six-minute average limitation. These reports shall also contain a reason for the exceedance and any corrective actions that were taken to eliminate the visible emissions.
  4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
  5. The permittee shall submit annual reports no later than January 31 indicating the actual amount of slag loaded into the primary feeder for the previous calendar year.

## **V. Testing Requirements**

### **1. Emission Limitation:**

Visible particulate emissions shall not exceed ten per cent opacity as a six-minute average

### **Compliance Method:**

Compliance with the visible emission limitation of 10 per cent as a six-minute average for all material handling operations, crushers, and screens identified above shall be determined in accordance with USEPA Method 9 as described in 40 CFR 60, Appendix A.

### **2. Emission Limitation:**

PE shall not exceed 4.23 lbs/hr

### **Compliance Method:**

Compliance with the hourly emissions limitation of 4.23 lb PM/hr shall be determined through the following methods using the following emissions factors:

Conveyor transfer points =  $4.8 \times 10^{-5}$  lb PM/ton material processed;

Feeder loading = 0.01258 lb PM/ton material processed, as derived from equation 1 of AP-42 Section 13.2.4;

Screening = 0.00084 lb PM/ton material processed;

Crushing = 0.0024 lb PM/ton material processed.

These emissions factors are found in AP-42, Table 11.19.2-2. These factors shall be used in the following equation:

$$H_{total} = H_t + H_f + H_c + H_s$$

where

$H_{total}$  = total hourly emissions for all transfer points, feeder, crushers, and screens

$H_t$ ,  $H_f$ ,  $H_c$ , and  $H_s$  shall be found individually through the following equations:

#### **Transfer points**

$$H_t = (4.8 \times 10^{-5} \text{ lb PM/ton}) * 2.1 * \sum_{i=1}^n T_i$$

where

$H_t$  = hourly PM emissions from transfer points (lb PM/hr)

$T_i$  = hourly throughput at transfer point "i", tons/hr

n = maximum number of transfer points in the plant (1 to n)

#### **Feeder loading**

$$H_f = T_f * [k * 0.0032 * ((u/5)^{1.3}) / ((m/2)^{1.4})] * (1 - 0.90)$$

where

$H_f$  = hourly PM emissions for feeder loading (lb PM/hr)

$T_f$  = hourly throughput for feeder loading, tons/hr

k = particle size multiplier, 0.74 (AP-42, Page 13.2.4-3)  
u = mean wind speed for Wheeling, WV (as supplied by permittee), 7.83 mph  
m = slag moisture content, 0.92% (AP-42, Table 13.2.4-1)

### **Crushers**

$$H_c = (0.0024 \text{ lb PM/ton}) * 2.1 * (1 - 0.75) * \sum_{i=1}^n T_i$$

where

H<sub>c</sub> = hourly PM emissions for crushers (lb PM/hr)  
T<sub>i</sub> = hourly throughput at crusher "i", tons/hr  
n = maximum number of crushers in the plant (1 to n)

### **Screens**

$$H_s = (0.00084 \text{ lb PM/ton}) * 2.1 * \sum_{i=1}^n T_i$$

where

H<sub>s</sub> = hourly PM emissions for screens (lb PM/hr)  
T<sub>i</sub> = hourly throughput at screen "i", tons/hr  
n = maximum number of screens in the plant (1 to n)

### **3. Emission Limitation:**

PE shall not exceed 3.48 tons/yr

### **Compliance Method:**

Compliance shall be determined through the following methods using the following emissions factors:

Conveyor transfer points =  $4.8 \times 10^{-5}$  lb PM/ton material processed;  
Feeder loading = 0.01258 lb PM/ton material processed, as derived from equation 1 of AP-42 Section 13.2.4;  
Screening = 0.00084 lb PM/ton material processed;  
Crushing = 0.0024 lb PM/ton material processed.

These emissions factors are found in AP-42, Table 11.19.2-2. These factors shall be used in the following equation:

$$A_{total} = A_t + A_f + A_c + A_s$$

where

$A_{total}$  = total annual emissions for all transfer points, feeder, crushers, and screens

$A_t$ ,  $A_f$ ,  $A_c$ , and  $A_s$  shall be found individually through the following equations:

### Transfer points

$$A_t = (4.8 \times 10^{-5} \text{ lb PM/ton}) * 2.1 / 2000 * \sum_{i=1}^n T_i$$

where

$A_t$  = annual PM emissions from transfer points (tons PM/yr)

$T_i$  = annual throughput at transfer point "i", tons/yr

n = maximum number of transfer points in the plant (1 to n)

### Feeder loading

$$A_f = T_f * [k * 0.0032 * ((u/5)^{1.3}) / ((m/2)^{1.4})] * (1 - 0.90) / 2000$$

where

$A_f$  = annual PM emissions for feeder loading (tons PM/yr)

$T_f$  = annual throughput for feeder loading, tons/yr

k = particle size multiplier, 0.74 (AP-42, Page 13.2.4-3)

u = mean wind speed for Wheeling, WV (as supplied by permittee), 7.83 mph

m = slag moisture content, 0.92% (AP-42, Table 13.2.4-1)

### Crushers

$$A_c = (0.0024 \text{ lb PM/ton}) * 2.1 * (1 - 0.75) / 2000 * \sum_{i=1}^n T_i$$

where

$A_c$  = annual PM emissions for crushers (tons PM/yr)

$T_i$  = annual throughput at crusher "i", tons/yr

n = maximum number of crushers in the plant (1 to n)

**Screens**

$$A_s = (0.00084 \text{ lb PM/ton}) * 2.1 / 2000 * \sum_{i=1}^n T_i$$

where

$A_s$  = annual PM emissions for screens (tons PM/yr)

$T_i$  = annual throughput at screen "i", tons/yr

$n$  = maximum number of screens in the plant (1 to  $n$ )

**VI. Miscellaneous Requirements**

None

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F014 - Plant material handling operations including conveyors, conveyor transfer points, crusher, and screens Chapter 31 modification replacing PTI #06-06217 issued 08/01/00.	None	None

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None