

PROPOSED CAAPP PERMIT  
June 15, 2009

217/782-2113

TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

PERMITTEE:

Stein Steel Mill Services, Inc.  
Attn: James E. Conlon  
1929 East Royalton Road  
Broadview Heights, Ohio 44147

I.D. No.: 119813AAD  
Application No.: 03050008

Date Received: May 5, 2003  
Date Issued: TO BE DETERMINED  
Expiration Date<sup>1</sup>: TO BE DETERMINED

Operation of: Slag Processing & Metallic Separation Plant  
Source Location: 20th Street and Edwardsville Road, Granite City, Madison  
County  
Responsible Official: James E. Conlon, Vice President and General Counsel

This permit is hereby granted to the above-designated Permittee to OPERATE a Slag Processing, Asphalt Chip Screening & Metallic Separation Plant, pursuant to the above referenced permit application. This permit is subject to the conditions contained herein.

If you have any questions concerning this permit, please contact Anatoly Belogorsky at 217/782-2113.

Edwin C. Bakowski, P.E.  
Acting Manager, Permit Section  
Division of Air Pollution Control

ECB:AB:jws

cc: Illinois EPA, FOS, Region 3  
CES  
Lotus Notes

1 Except as provided in Conditions 1.5 and 8.7 of this permit.

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**1.0 SOURCE IDENTIFICATION**

1.1 Source

Stein Steel Mill Services, Inc.  
20<sup>th</sup> Street and Edwardsville Road  
Granite City, Illinois 62040  
618/877-3270

I.D. No.: 119813AAD  
County: Madison  
Standard Industrial Classification: 3295, Slag Crushed or Ground  
Manufacturing

1.2 Owner/Parent Company

Stein Steel Mill Services, Inc.  
1929 East Roalton Road  
Broadview Heights, Ohio 44147

1.3 Operator

Stein Steel Mill Services, Inc.  
20<sup>th</sup> Street and Edwardsville Road  
Granite City, Illinois 62040

Ed Sovacool  
618/877-3270

1.4 Source Description

Stein Steel Mill Services, Inc. is located at 20<sup>th</sup> Street and Edwardsville Road in Granite City and primarily engaged in the crushing and screening of slag from the U.S. Steel Corporation basic oxygen furnace shop (BOF). Two types of slag (steel and skimmer) are produced at the BOF and then processed at Stein Steel Mill Services, Inc. Steel slag is produced during the steel making cycle at the BOF; skimmer slag is produced from the slag skimming operation as a result of desulfurization of the molten iron at the BOF. After the slag has cooled and solidified in the pits, it is transferred to the surge piles for the crushing and screening plant. Large chunks of slag are broken up by ball and dumped through stationary grids in order to process them in the plant. Steel skulls and scrap are cut into smaller pieces with oxygen lances.

1.5 Title I Conditions

As generally identified below, this CAAPP permit contains certain conditions for emission units at this source that address the applicability of permitting programs for the construction and modification of sources, which programs were established pursuant to Title I of the Clean Air Act (CAA) and regulations thereunder. These programs include 40 CFR 52.21, Prevention of Significant Deterioration (PSD) and 35 IAC Part 203, Major Stationary Sources Construction and

Modification (MSSCAM), and are implemented by the Illinois EPA pursuant to Sections 9, 9.1, 39(a) and 39.5(7)(a) of the Illinois Environmental Protection Act (Act). These conditions continue in effect, notwithstanding the expiration date specified on the first page of this permit, as their authority derives from Titles I and V of the CAA, as well as Titles II and X of the Act. (See also Condition 8.7.)

- a. This permit contains "Title I conditions" that reflect Title I requirements established in permits previously issued for this source, which conditions are specifically designated as "T1."
- b. This permit contains Title I conditions that are newly established in this CAAPP permit, which conditions are specifically designated as "T1N."

2.0 LIST OF ABBREVIATIONS AND ACRONYMS COMMONLY USED

ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATU	Allotment Trading Unit
BAT	Best Available Technology
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
ERMS	Emissions Reduction Market System
HAP	Hazardous Air Pollutant
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
ILCS	Illinois Compiled Statutes
Illinois EPA	Illinois Environmental Protection Agency
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
PM <sub>10</sub>	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
PM <sub>2.5</sub>	Particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 microns as measured by applicable test or monitoring methods
PSD	Prevention of Significant Deterioration
RMP	Risk Management Plan
SO <sub>2</sub>	Sulfur Dioxide
T1	Title I - identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile Organic Material

### 3.0 CONDITIONS FOR INSIGNIFICANT ACTIVITIES

#### 3.1 Identification of Insignificant Activities

The following activities at the source constitute insignificant activities as specified in 35 IAC 201.210:

3.1.1 Activities determined by the Illinois EPA to be insignificant activities, pursuant to 35 IAC 201.210(a)(1) and 201.211, as follows:

None

3.1.2 Activities that are insignificant activities based upon maximum emissions, pursuant to 35 IAC 201.210(a)(2) or (a)(3), as follows:

None

3.1.3 Activities that are insignificant activities based upon their type or character, pursuant to 35 IAC 201.210(a)(4) through (18), as follows:

- a. Direct combustion units designed and used for comfort heating purposes and fuel combustion emission units as follows: (A) Units with a rated heat input capacity of less than 2.5 mmBtu/hr that fire only natural gas, propane, or liquefied petroleum gas; (B) Units with a rated heat input capacity of less than 1.0 mmBtu/hr that fire only oil or oil in combination with only natural gas, propane, or liquefied petroleum gas; and (C) Units with a rated heat input capacity of less than 200,000 Btu/hr which never burn refuse, or treated or chemically contaminated wood [35 IAC 201.210(a)(4)].
- b. Storage tanks of organic liquids with a capacity of less than 10,000 gallons and an annual throughput of less than 100,000 gallons per year, provided the storage tank is not used for the storage of gasoline or any material listed as a HAP pursuant to Section 112(b) of the CAA [35 IAC 201.210(a)(10)].
- c. Storage tanks of any size containing virgin or re-refined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oils [35 IAC 201.210(a)(11)].

3.1.4 Activities that are considered insignificant activities pursuant to 35 IAC 201.210(b). Note: These activities are not required to be individually listed.

#### 3.2 Compliance with Applicable Requirements

Insignificant activities are subject to applicable requirements notwithstanding status as insignificant activities. In particular, in addition to regulations of general applicability, such as 35 IAC 212.301 and 212.123 (Condition 5.3.2), the Permittee shall comply with the following requirements, as applicable:

- 3.2.1 For each particulate matter process emission unit, the Permittee shall comply with the applicable particulate matter emission limit of 35 IAC 212.321 or 212.322 (see Attachment 2) and 35 IAC Part 266. For example, the particulate matter emissions from a process emission unit shall not exceed 0.55 pounds per hour if the emission unit's process weight rate is 100 pounds per hour or less, pursuant to 35 IAC 266.110.
- 3.2.2 For each organic material emission unit that uses organic material, e.g., a mixer or printing line, the Permittee shall comply with the applicable VOM emission limit of 35 IAC 219.301, which requires that organic material emissions not exceed 8.0 pounds per hour or, if no odor nuisance exists, do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.
- 3.2.3 For each open burning activity, the Permittee shall comply with 35 IAC Part 237, including the requirement to obtain a permit for open burning in accordance with 35 IAC 237.201, if necessary.
- 3.2.4 For each storage tank that has a storage capacity greater than 946 liters (250 gallons) and, if no odor nuisance exists, that stores an organic material with a vapor pressure exceeding 2.5 psia, the Permittee shall comply with the applicable requirements of 35 IAC 219.122, which requires use of a permanent submerged loading pipe, submerged fill, a vapor recovery system, or an equivalent device approved by the Illinois EPA. [Note: storage tanks used for storing gasoline and any hazardous air pollutants are not illegible for insignificant activities].

### 3.3 Addition of Insignificant Activities

- 3.3.1 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type that is identified in Condition 3.1, until the renewal application for this permit is submitted, pursuant to 35 IAC 201.212(a).
- 3.3.2 The Permittee must notify the Illinois EPA of any proposed addition of a new insignificant activity of a type addressed by 35 IAC 201.210(a) and 201.211 other than those identified in Condition 3.1, pursuant to Section 39.5(12)(b) of the Act.
- 3.3.3 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type identified in 35 IAC 201.210(b).

4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Unit/Operations	Description	Emission Control Equipment	Subsection
BOF Slag Processing	Unloading of hot slag into the pits;  Material handling and storage piles;  Screening, Crushing, Conveying, and Processing	None	7.1
Kish Iron Crushing Operations	Drop Ball Crushing; Screening	None	7.2
Oxygen Lance Torch Operations	Four (4) Lance Pipes	None	7.3
Asphalt Chip Screening Operations	Double Deck Scalping Screen	None	7.4
Gasoline Storage Tank	1,000 gallons storage tank	None	7.5
Fugitive Emissions	BF slag material handling; BOF slag material handling; BOF slag piles; Material handling; Roadways and parking areas	None	7.6

## 5.0 OVERALL SOURCE CONDITIONS

### 5.1 Applicability of Clean Air Act Permit Program (CAAPP)

5.1.1 For purposes of the CAAPP, Stein Steel Mill Services is considered a single source with U.S. Steel (I.D. 119813AAI), located at 20<sup>th</sup> Street and Edwardsville in Granite City. The Permittees have elected to obtain separate CAAPP permits for their operations.

Note: Although this source itself is not a major source for any regulated air pollutant and HAPs, it is treated by this permit as a major source considering the single source status of all co-located sources operated at U.S. Steel property in Granite City.

### 5.2 Area Designation

5.2.1 This permit is issued based on the source being located in an area that, as of the date of permit issuance, is designated non-attainment for the National Ambient Air Quality Standards for ozone (moderate non-attainment), PM<sub>10</sub>, PM<sub>2.5</sub>, and attainment or unclassifiable for all other criteria pollutants (CO, lead, NO<sub>x</sub>, SO<sub>2</sub>).

5.2.2 In addition to Stein Steel Mill Services, the following independent operators/Permittees are considered a single source with U.S. Steel:

- a. Tube City IMS, LLC (I.D. 119040ATL) located at 2500 East 23<sup>rd</sup> Street in Granite City. The Permittee have elected to obtain a separate CAAPP permit for it operations.
- b. Granite City Slag, LLC (I.D. 119040ATF) located at 20<sup>th</sup> Street and Edwardsville in Granite City. The Permittee have elected to obtain a separate CAAPP permit for it operations.
- c. Gateway Energy & Coke Co LLC (I.D. 119040ATN) located at Edwardsville Road in Granite City. Gateway Energy & Coke Co LLC shall obtain a separate CAAPP permit within 12 months after construction of a new heat recovery coke manufacturing plant.
- d. AKJ Industries, Inc (I.D. 119040AEB) located at 20th and State Streets in Granite City. The Permittee have elected to obtain a separate CAAPP permit for it operations.
- e. Oil Technology Inc (I.D. 119040ATG) located at Rte 203 in Granite City. The Permittee have elected to obtain a separate CAAPP permit for it operations.

### 5.3 Source-Wide Applicable Provisions and Regulations

- 5.3.1 Specific emission units at this source are subject to particular regulations as set forth in Section 7 (Unit-Specific Conditions for Specific Emission Units) of this permit.
- 5.3.2 In addition, emission units at this source are subject to the following regulations of general applicability, if not otherwise specified anywhere in this permit:
- a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.
  - b. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.
  - c. The following emission limitations applied to the source as established in 35 IAC 212.316:
    - i. Emission Limitation for Crushing and Screening Operations. No person shall cause or allow fugitive particulate matter emissions generated by the crushing or screening of slag, stone, coke or coal to exceed an opacity of 10 percent [35 IAC 212.316(b)].
    - ii. Emission Limitations for Roadways or Parking Areas. No person shall cause or allow fugitive particulate matter emissions from any roadway or parking area to exceed an opacity of 10 percent, except that the opacity shall not exceed 5 percent at quarries with a capacity to produce more than 1 million T/yr of aggregate [35 IAC 212.316(c)].
    - iii. Emission Limitations for Storage Piles. No person shall cause or allow fugitive particulate matter emissions from any storage pile to exceed an opacity of 10 percent, to be measured four ft from the pile surface [35 IAC 212.316(d)].
    - iv. Additional Emission Limitations for the Granite City Vicinity as defined in 35 IAC 212.324(a)(1)(C) for Roadways or Parking Areas Located at Slag Processing Facilities or Integrated Iron and Steel Manufacturing Plants: No person shall cause or allow fugitive particulate matter emissions from any roadway or

parking area located at a slag processing facility or integrated iron and steel manufacturing plant to exceed an opacity of 5 percent [35 IAC 212.316(e)(1)].

- v. Emission Limitation for All Other Emission Units. Unless an emission unit has been assigned a particulate matter, PM<sub>10</sub>, or fugitive particulate matter emissions limitation elsewhere in this Section or in Subparts R or S of 35 IAC Part 212, no person shall cause or allow fugitive particulate matter emissions from any emission unit to exceed an opacity of 20 percent [35 IAC 212.316(f)].
- d. Operations of Stein Steel Mill Services and PM/PM<sub>10</sub> emissions from this location are regulated by 35 IAC Part 212 Subpart R "Primary and Fabricated Metal Products and Machinery Manufacture". Specifically, the following emission limit is established in 35 IAC 212.458(b) for specific emission units operated by the Permittee:

No person shall cause or allow the emission of PM<sub>10</sub>, other than that of fugitive particulate matter, into the atmosphere to exceed the following limits during any one hour period:

22.9 mg/scm (0.01 gr/scf) from any process emissions unit located at integrated iron and steel plants in the vicinity of Granite City, as defined in 35 IAC 212.324(a)(1)(C), except as otherwise provided in 35 IAC 212.458 or in 35 IAC 212.443 and 212.446.

### 5.3.3 Fugitive Particulate Matter Operating Program

- a. This source shall be operated under the provisions of an operating program prepared by the Permittee and submitted to the Illinois EPA for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions [35 IAC 212.309(a)]. The Permittee shall comply with the fugitive particulate matter operating program, submitted to the Illinois EPA and incorporated by reference into this permit, and any amendments to the program submitted pursuant to Condition 5.3.7(b) below. As a minimum, the operating program shall include the provisions identified in 35 IAC 212.310.
- b. The operating program shall be amended from time to time by the Permittee so that the operating program is current. Such amendments shall be consistent with the requirements set forth by this Condition and shall be submitted to the Illinois EPA [35 IAC 212.312].

- c. The operating program outlined in 35 IAC 212.309 and 212.310 shall include the following operations as established by 35 IAC 212.309(a):
  - i. Storage Piles (35 IAC 212.304);
  - ii. Conveyor Loading Operations (35 IAC 212.305);
  - iii. Traffic Areas (35 IAC 212.306);
  - iv. Materials Collected by Pollution Control Equipment (35 IAC 212.307); and
  - v. Spraying or Choke-Feeding Required (35 IAC 212.308).

#### 5.3.4 PM<sub>10</sub> Contingency Measure Plan

This stationary source meets the criteria in 35 IAC 212.700 and is required to prepare and submit a contingency measure plan reflecting the PM<sub>10</sub> emission reductions as set forth in 35 IAC 212.701 and 212.703. The plan submitted to the Illinois EPA is incorporated by reference into this permit and shall be implemented by the Permittee in accordance with 35 IAC 212.704 following notification by the Illinois EPA. The source shall comply with the applicable requirements of 35 IAC Part 212, Subpart U.

#### 5.3.5 Ozone Depleting Substances

The Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 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 CFR 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

#### 5.3.6 Risk Management Plan (RMP)

Should this stationary source, as defined in 40 CFR 68.3, become subject to the federal regulations for Chemical Accident Prevention in 40 CFR Part 68, then the owner or operator shall submit the items below. This condition is imposed in this permit pursuant to 40 CFR 68.215(a)(2)(i) and (ii).

- a. A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or
- b. A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the RMP, as part of the annual compliance certification required by Condition 9.8.

#### 5.3.7 Future Emission Standards

- a. Should this stationary source become subject to a regulation under 40 CFR Parts 60, 61, 62, or 63, or 35 IAC Subtitle B after the date this permit is issued, then the owner or operator shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by Condition 9.8. This permit may also have to be revised or reopened to address such new regulations (see Condition 9.12.2).
- b. This permit and the terms and conditions herein do not affect the Permittee's past and/or continuing obligation with respect to statutory or regulatory requirements governing major source construction or modification under Title I of the CAA. Further, neither the issuance of this permit nor any of the terms or conditions of the permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance.

#### 5.3.8 Episode Action Plan

- a. Pursuant to 35 IAC 244.142, the Permittee shall maintain at the source and have on file with the Illinois EPA a written episode action plan (plan) for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The plan shall contain the information specified in 35 IAC 244.144.
- b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared.
- c. If an operational change occurs at the source which invalidates the plan, a revised plan shall be submitted to the Illinois EPA for review within 30 days of the change, pursuant to 35 IAC 244.143(d). Such plans shall be further revised if disapproved by the Illinois EPA.

5.4 Source-Wide Non-Applicability of Regulations of Concern

The emission limitations of 35 IAC 212.324 are not applicable to any emission unit subject to a specific emissions standard or limitation contained in 35 IAC Subpart R, Primary and Fabricated Metal Products and Machinery Manufacture pursuant to 35 IAC 212.324(a)(3)(C).

5.5 Source-Wide Control Requirements and Work Practices

In addition to the source-wide requirements in the Standard Permit Conditions in Section 9, the Permittee shall fulfill the following source-wide operational and production limitations and/or work practice requirements:

All operating activities performed on site shall be conducted to minimize fugitive emissions of PM/PM<sub>10</sub> in accordance with the procedures and control requirements of the Fugitive Particulate Matter Operating Program and PM<sub>10</sub> Contingency Measure Plan outlined in Conditions 5.3.3 and 5.3.4, respectively.

5.6 Source-Wide Production and Emission Limitations

5.6.1 Permitted Emissions for Fees

The annual emissions from the source, not considering insignificant activities as addressed by Section 3.0 of this permit, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. These limitations (Condition 5.6.1) are set for the purpose of establishing fees and are not federally enforceable (see Section 39.5(18) of the Act).

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	0.11
Sulfur Dioxide (SO <sub>2</sub> )	---
Particulate Matter (PM)	62.53
Nitrogen Oxides (NO <sub>x</sub> )	---
HAP, not included in VOM or PM	---
Total	62.64

5.6.2 Emissions of Hazardous Air Pollutants

Although this source itself is not a major source for HAPs, it is treated by this permit as a major source considering the single source status of all co-located sources operated at U.S. Steel property in Granite City as described in Condition 5.1.1 and 5.2.2.

5.6.3 Other Source-Wide Production and Emission Limitations

Other source-wide emission limitations are not set for this source pursuant to the federal rules for PSD, state rules for MSSCAM, or Section 502(b)(10) of the CAA. However, there may be unit specific emission limitations set forth in Section 7 of this permit pursuant to these rules.

#### 5.7 Source-Wide Testing Requirements

Pursuant to 35 IAC 201.282 and Section 4(b) of the Act, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:

- a. **Testing by Owner or Operator:** The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the right to observe all aspects of such tests [35 IAC 201.282(a)].
- b. **Testing by the Illinois EPA:** The Illinois EPA shall have the right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary [35 IAC 201.282(b)].
- c. Any such tests are also subject to the Testing Procedures of Condition 8.5 set forth in the General Permit Conditions of Section 8.

#### 5.8 Source-Wide Monitoring Requirements

Source-wide monitoring requirements are not set for this source.

#### 5.9 Source-Wide Recordkeeping Requirements

##### 5.9.1 Annual Emission Records

The Permittee shall maintain records of total annual emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit to demonstrate compliance with Conditions 5.6.1 and 5.6.3, pursuant to Section 39.5(7)(b) of the Act.

5.9.2 Records for HAP Emissions

The Permittee shall maintain records of HAP emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit, pursuant to Section 39.5(7)(b) of the Act.

5.9.3 Records Required by 35 IAC 212.316(g):

- a. The owner or operator of any fugitive particulate matter emission unit shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations.
- b. The required records shall include at least the following:
  - i. The name and address of the source;
  - ii. The name and address of the owner and/or operator of the source;
  - iii. A map or diagram showing the location of all emission units controlled, including the location, identification, length, and width of roadways;
  - iv. For each application of water or chemical solution to roadways by truck: the name and location of the roadway controlled, application rate of each truck, frequency of each application, width of each application, identification of each truck used, total quantity of water or chemical used for each application and, for each application of chemical solution, the concentration and identity of the chemical;
  - v. For application of physical or chemical control agents: the name of the agent, application rate and frequency, and total quantity of agent, and, if diluted, percent of concentration, used each day; and
  - vi. A log recording incidents when control measures were not used and a statement of explanation.

5.9.4 Retention and Availability of Records

- a. All records and logs required by this permit shall be retained for at least five years from the date of entry (unless a longer retention period is specified by the particular recordkeeping provision herein), shall be kept at a location at the source that is readily accessible to the Illinois EPA or USEPA, and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request.

- b. The Permittee shall retrieve and print, on paper during normal source office hours, any records retained in an electronic format (e.g., computer) in response to an Illinois EPA or USEPA request for records during the course of a source inspection.

## 5.10 Source-Wide Reporting Requirements

### 5.10.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the source with the permit requirements within 30 days, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken. There are also reporting requirements for unit specific emission units set forth in Section 7 of this permit.

### 5.10.2 Reporting Required by 35 IAC 212.316(g):

- a. The Permittee shall submit to the Illinois EPA an annual report of the application of control measures containing a summary of the information, as presented in 35 IAC 212.316(g) (see also Condition 5.9.3(b)).
- b. Copies of all records required by 35 IAC 212.316(g) (see also Condition 5.9.3(b)) shall be submitted to the Illinois EPA within ten (10) working days after a written request by the Illinois EPA and shall be transmitted to the Illinois EPA by a company-designated person with authority to release such records.
- c.
  - i. A quarterly report shall be submitted to the Illinois EPA stating the following: the dates any necessary control measures were not implemented, a listing of those control measures, the reasons that the control measures were not implemented, and any corrective actions taken. This information includes, but is not limited to, those dates when controls were not applied based on a belief that application of such control measures would have been unreasonable given prevailing atmospheric conditions, which shall constitute a defense to the requirements of 35 IAC 212.316. This report shall be submitted to the Illinois EPA thirty (30) calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31.
  - ii. These reports shall be submitted to the Illinois EPA thirty (30) calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31. The reports for quarters ended June 30 and December 31 may be combined with the semiannual monitoring reports described in Condition 8.6.1.

### 5.10.3 Annual Emissions Report

The annual emissions report required pursuant to Condition 9.7 shall contain emissions information, including HAP emissions, for the previous calendar year.

## 5.11 Source-Wide Compliance Procedures

### 5.11.1 General Procedures for Calculating Emissions

Except as provided in Condition 9.1.3, compliance with the source-wide emission limits specified in Condition 5.6 shall be based on the recordkeeping and reporting requirements of Conditions 5.9 and 5.10, and compliance procedures in Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit.

## 6.0 CONDITIONS FOR EMISSIONS CONTROL PROGRAMS

This section is reserved for emissions control programs. As of the date of issuance of this permit, there are no such programs applicable to this source.

7.0 UNIT SPECIFIC CONDITIONS FOR SPECIFIC EMISSION UNITS

7.1 BOF Slag Processing Plant

7.1.1 Description

Crushing and screening of slag received from U.S. Steel basic oxygen furnace (BOF) shop. At the BOF, two types of slag are produced which are processed at Stein Steel: steel slag and skimmer slag. Steel slag is produced during the steel making cycle at the BOF. Skimmer slag is produced from the slag skimming operation as a result of desulfurization of the molten iron at the BOF. Once the molten iron is skimmed, it is then ready to be utilized in the steelmaking cycle. Pots containing the slag are transferred to Stein from the BOF using pot haulers, also known to as slag-a-ways. The slag is dumped into designated pits for cooling. Water is utilized to cool and wet the slag. After the slag has cooled and solidified, it is transferred to the surge piles for the crushing and screening plant. Steel slag and skimmer slag are kept and processed separately through the plant. The slag is then conveyed to cross and drum magnets to separate the metallic portion. The metallics are then conveyed to a screen, which separates the stream into four sizes. Non-metallic slag is first routed to a scalper shaker and being crushed in a jaw crusher. It is then conveyed to a screen, which separates that stream into four sizes. The large chunks of slag are broken up by ball and crane and dumped through stationary grids in order to process them in the plant.

7.1.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
BOF Slag Processing Plant/Aggregate Handling Operations	Pits for Unloaded hot Slag	1996	None
	Screening, Crushing, Conveying, and Processing	1996	None
	Material Handling and Storage Piles	1996	None

7.1.3 Applicable Provisions and Regulations

- a. The "affected BOF slag processing plant" for the purpose of these unit-specific conditions, is the emission units/operations described in Conditions 7.1.1 and 7.1.2.
- b. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the

property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.

- c. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.
- d. The following emission limitations applied to the source as established in 35 IAC 212.316:
  - i. Emission Limitation for Crushing and Screening Operations. No person shall cause or allow fugitive particulate matter emissions generated by the crushing or screening of slag, stone, coke or coal to exceed an opacity of 10 percent [35 IAC 212.316(b)].
  - ii. Emission Limitations for Storage Piles. No person shall cause or allow fugitive particulate matter emissions from any storage pile to exceed an opacity of 10 percent, to be measured four ft from the pile surface [35 IAC 212.316(d)].
  - iii. Emission Limitation for All Other Emission Units. Unless an emission unit has been assigned a particulate matter, PM<sub>10</sub>, or fugitive particulate matter emissions limitation elsewhere in this Section or in Subparts R or S of 35 IAC Part 212, no person shall cause or allow fugitive particulate matter emissions from any emission unit to exceed an opacity of 20 percent [35 IAC 212.316(f)].
- e. The Fugitive Particulate Operating Program and PM<sub>10</sub> Contingency Measure Plan are incorporated by reference into this permit and shall be amended accordingly to remain up to date.
- f. The affected BOF slag processing plant is subject to IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced after April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 (see also Attachment 2) [35 IAC 212.321(a)].

#### 7.1.4 Non-Applicability of Regulations of Concern

- a. The affected BOF slag processing plant is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because no air pollution control device(s) is used at the source.
- b. The emission limitations of 35 IAC 212.324 are not applicable to any emission unit subject to a specific emissions standard or limitation contained in 35 IAC Subpart R, Primary and Fabricated Metal Products and Machinery Manufacture pursuant to 35 IAC 212.324(a)(3)(C).

7.1.5 Control Requirements and Work Practices

- a. The Permittee shall follow good operating practices for the affected BOF slag processing plant, including periodic inspection at least on a monthly basis (see condition 7.1.8), routine maintenance and repair of defects within 30 days.
- b. The Permittee shall implement an operating program for the affected BOF slag processing plant that reflects good air pollution practices to minimize emissions of particulate matter from the affected units.
- c.
  - i. Pursuant to 35 IAC 212.308, crushers, screening operations, elevators, conveyor transfer points, conveyors, storage bins, etc., shall be sprayed with water or a surfactant solution, utilize choke-feeding or be treated by an equivalent method in accordance with an operating program.
  - ii. Water sprays shall be used utilized at an adequate flow rate\* on the emission units associated with the affected slag processing units (e.g., crushers, conveyors, and stockpiles, etc.) as necessary, except when weather conditions are below or expected to fall below freezing temperatures, to produce an adequate moisture content percentage by weight\* or higher to reduce particulate matter emissions and to maintain compliance with the applicable visible emissions standards for each piece of processing equipment used in the production process.

\* The water flow rate and moisture content percentage by weight will be established during the testing of Condition 7.1.7(b).

- d. The affected BOF slag processing plant shall use control requirements and work practices outlined in the Fugitive Particulate Matter Operating Program (See Condition 5.3.3) and PM<sub>10</sub> Contingency Measure Plan (See Condition 5.3.4) for minimizing PM/PM<sub>10</sub> emissions released from the operations performed at this plant.

7.1.6 Production and Emission Limitations

In addition to Condition 5.3.2 and the source-wide emission limitations in Condition 5.6, the affected slag processing plant is subject to the following:

- a. Production Limits

Cooled BOF slag processed (loading/unloading, crushing screening, conveying):

Tons/hr	Tons/yr
200	525,000

- b. PM<sub>10</sub> Emission Limits (Crushing, screening, conveying, unloading), considering 80% control efficiency from an application of water and chemical suppressants:

lb/hr	Tons/yr
11.6	15.2

- c. The above limitations are being established in this permit pursuant to Title I of the CAA, specifically MSSCAM and/or PSD. The source has requested that the Illinois EPA establish emission limitations and other appropriate terms and conditions in this permit that limit the PM<sub>10</sub> emissions from the affected oxygen lance pipes below the levels that would trigger the applicability of these rules, consistent with the information provided in the CAAPP application [T1N].
- d. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total) [T1N].

7.1.7 Testing Requirements

- a. i. The Permittee shall have the opacity of the emissions from the affected BOF slag processing plant during representative weather and operating conditions determined by a qualified observer in accordance with USEPA Test Method 9.
  - A. For each affected unit/operation, testing shall be conducted at least annually. For this purpose, testing shall first be conducted

within three months of the issuance of this permit.

- B. Upon written request by the Illinois EPA, such testing shall be conducted for specific affected unit(s)/operation(s) within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.
- ii. The duration of opacity observations for each test shall be at least 30 minutes (five 6-minute averages) unless the average opacities for the first 12 minutes of observations (two six-minute averages) are both less than 10.0 percent.
- iii. A. The Permittee shall notify the Illinois EPA at least 7 days in advance of the date and time of these tests, in order to allow the Illinois EPA to witness testing. This notification shall include the name and employer of the qualified observer(s).
- B. The Permittee shall promptly notify the Illinois EPA of any changes in the time or date for testing.
- iv. The Permittee shall provide a copy of its observer's readings to the Illinois EPA at the time of testing, if Illinois EPA personnel are present.
- v. The Permittee shall submit a written report for this testing within 15 days of the date of testing. This report shall include:
  - A. Date and time of testing.
  - B. Name and employer of qualified observer.
  - C. Copy of current certification.
  - D. Description of observation condition, including recent weather.
  - E. Description of the operating conditions of the affected operations.
  - F. Raw data.
  - G. Opacity determinations.
  - H. Conclusions.

- b. At the time of the testing required by Condition 7.1.7(a)(i), the Permittee shall establish the water flow rate for the spray bars and the moisture content percentage by weight of the slag to be used for Condition 7.1.5(c)(ii).
  - i. The water flow rate shall be the average water flow rate utilized during a successful compliance test required by Condition 7.1.7(a).
  - ii. The moisture content percentage by weight shall be the resulting moisture content percentage by weight of the slag after the application of the average water flow rate utilized during a successful compliance test required by Condition 7.1.7(a).
- c. Upon written request by the Illinois EPA, the Permittee shall have the particulate matter (PM) emissions determined from the affected unit(s)/operation(s), during representative weather and operating conditions, in accordance with USEPA Test Method 5, pursuant to Section 39.5(7)(d) of the Act. Such testing shall be conducted within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.
- d. The moisture content of a representative sample of the slag processed in the affected slag processing units shall be measured at least once per week using ASTM Procedures (C566-97) for total moisture content of material.
- e. The testing conditions from above are established in accordance with requirements of 39.5(7)(d) of the Act.

#### 7.1.8 Monitoring Requirements

- a. The Permittee shall perform inspections of the affected BOF slag processing plant on at least a monthly basis, including associated control measures, while the affected units/operations are in use, to confirm compliance with the requirements of Condition 7.1.5 and Condition 7.1.6. The inspections may be scheduled so that only a number of affected slag processing units are reviewed during each inspection, provided however, that entire affected BOF slag processing plant that is in routine service shall be inspected at least once during each calendar month, pursuant to Sections 39.5(7)(a) and (d) of the Act.
- b. The water supply to the spray equipment shall be equipped with a metering device used to determine water usage for the control of particulate matter emissions.
- c. The monitoring requirements from above are established in accordance with requirements of 39.5(7)(d) of the Act.

#### 7.1.9 Recordkeeping Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for the affected BOF slag processing plant, pursuant to Section 39.5(7)(b) of the Act:

- a.
  - i. Amount of slag processed, tons/mo and tons/year.
  - ii. PM emissions with supporting calculations based from the record keeping as required by this condition.
  - iii. Information identifying any deviation from Condition 7.1.3, 7.1.5, or 7.1.6.
  - iv. A file containing the particulate matter emission factors for the affected slag processing units and affected open areas (lbs/ton) used by the Permittee to calculate emissions, with supporting documentation.
  - vi. A file containing the most current Operating Program for the affected slag processing units, with supporting documentation.
  - vii. Date and utilization records for the water spray or surfactant solution application pursuant to Condition 7.1.5(c).
- b.
  - i. Information for the testing conducted pursuant to Condition 7.1.7, which shall at a minimum include the formal report for the measurements with date, time, personnel, the operating condition, and copies of the raw data sheets for the measurements.
  - ii. Information for the formal observations of opacity conducted pursuant to Condition 7.1.8(a). For each occasion on which observations are made, these records shall include the date, time, identity of the observer, a description of the various observations that were made, whether or not the affected slag processing unit(s) was running properly, and whether or not corrective action is necessary and was subsequently initiated.
- c. Recordkeeping pursuant to 35 IAC 212.316(g):
  - i. The owner or operator of any fugitive particulate matter emission unit shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations of this Section and shall submit to the Agency an annual report containing a summary of such information.

- ii. The records required under this subsection shall include at least the following:
  - A. The name and address of the source.
  - B. The name and address of the owner and/or operator of the source.
  - C. A map or diagram showing the location of all emission units controlled, including the location, identification, length, and width of roadways.
  - D. For each application of water or chemical solution to roadways by truck: the name and location of the roadway controlled, application rate of each truck, frequency of each application, width of each application, identification of each truck used, total quantity of water or chemical used for each application and, for each application of chemical solution, the concentration and identity of the chemical.
  - E. For application of physical or chemical control agents: the name of the agent, application rate and frequency, and total quantity of agent and, if diluted, percent of concentration, used each day.
  - F. A log recording incidents when control measures were not used and a statement of explanation.
- iii. Copies of all records required by this Condition shall be submitted to the Agency within ten (10) working days after a written request by the Agency and shall be transmitted to the Agency by a company-designated person with authority to release such records.
- iv. The records required under this Condition shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Agency representatives during working hours.
- d. The Permittee shall maintain records of the following for the inspections required by Condition 7.1.8:
  - i. Date and time the inspection was performed and name(s) of inspection personnel.
  - ii. The observed condition of the control measures for each affected slag processing units, including the presence of any visible emissions.

- iii. A description of any maintenance or repair associated with established control measures that are recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.
  - iv. A summary of the observed implementation or status of actual control measures, as compared to the established control measures.
- e. The Permittee shall maintain records of the following for each incident when any affected slag processing units operated without the established control measures:
- i. The date of the incident and identification of the affected slag handling units that were involved.
  - ii. A description of the incident, including the established control measures that were not present or implemented; the established control measures that were present, if any; other control measures or mitigation measures that were implemented, if any; and the magnitude of the PM emissions during the incident.
  - iii. The time at and means by which the incident was identified, e.g., scheduled inspection or observation by operating personnel.
  - iv. The length of time after the incident was identified that the affected operations continued to operate before established control measures were in place or the operations were shutdown (to resume operation only after established control measures were in place) and, if this time was more than one hour, an explanation why this time was not shorter, including a description of any mitigation measures that were implemented during the incident.
  - v. The estimated total duration of the incident, i.e., the total length of time that the affected operations ran without established control measures and the estimated amount of coal handled during the incident.
  - vi. A discussion of the probable cause of the incident and any preventative measures taken.
  - vii. A discussion whether Condition 7.1.3(b) may have been violated during the incident, with supporting explanation as needed.

- f. Records addressing the moisture content:
  - i. The Permittee shall maintain records of all moisture content tests performed in accordance with Condition 7.1.1(d), including: date, time, individual performing test, and location of sample (e.g., prior to crushing, stockpiles, etc.).
  - ii. The Permittee shall maintain operating logs for the water spray equipment, including dates and times of usage, malfunctions (type, date, and measures taken to correct), water pressure, and dates when there was at least 0.25" of rainfall during the preceding 24 hours and the water spray equipment was not operated.
  - iii. The Permittee shall maintain weekly records of water consumption in the spray equipment, as determined by the meter required by Condition 7.1.8(d).
  - iv. The Permittee shall maintain records of the established water flow rate and moisture content percentage from Condition 7.1.7(b) for Condition 7.1.5(c)(ii).

7.1.10 Reporting Requirements

a. Reporting of Deviations

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected BOF slag processing plant with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

- i. Emissions of PM in excess of the limits specified in Conditions 7.1.3 or 7.1.6 within 30 days of such occurrence.
  - ii. Operation of the affected BOF slag processing plant in excess of the limits specified in Condition 7.1.6 within 30 days of such occurrence.
  - iii. Failure to utilize water sprays or surfactant solution application as required by 7.1.5(c) or follow the particulate matter Operating Program as required by 7.1.5(d) within 30 days of such occurrence.
- b. i. The owner or operator of any fugitive particulate matter emission unit subject to 35 IAC Subpart K shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations of 35 IAC Subpart K and shall

submit to the Agency an annual report containing a summary of such information, pursuant to 35 IAC 212.316(g)(1).

- ii. A quarterly report shall be submitted to the Agency stating the following: the dates any necessary control measures were not implemented, a listing of those control measures, the reasons that the control measures were not implemented, and any corrective actions taken. This information includes, but is not limited to, those dates when controls were not applied based on a belief that application of such control measures would have been unreasonable given prevailing atmospheric conditions, which shall constitute a defense to the requirements of this Section. This report shall be submitted to the Agency thirty (30) calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31, pursuant to 35 IAC 212.316(g)(5).

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected BOF slag processing plant.

7.1.12 Compliance Procedures

- a. Compliance with the PM emission limitations of Conditions 7.1.3(b)-(e) is addressed by the requirements of Condition 7.1.5(a)-(d), the testing requirements in Condition 7.1.7, the monitoring requirements of 7.1.8, the records required in Condition 7.1.9, and the reports required in Condition 7.1.10(a).
- b. Compliance with Condition 7.1.5(c) is addressed by the records and reports required in Conditions 7.1.9(a) and 7.1.10(a).
- c. Compliance with the emission limits in Conditions 5.6 and 7.1.6 is addressed by the records and reports required in Conditions 7.1.9 and 7.1.10(a) and the emission factors and formulas listed below:

PM<sub>10</sub> emissions shall be calculated based on the following uncontrolled emission factor presented by FIRE (SCC 30300924, Steel Furnace Slag Processing):

- i. PM<sub>10</sub> = 0.29 lb/ton slag processed
- ii. Emission formula to calculate PM<sub>10</sub> emissions:

Emissions, ton = [(0.29 lb/ton slag)  
x(0.2)]/2000lb/ton

7.2 Kish Iron Crushing Operations

7.2.1 Description

The large chunks of slag are broken up by ball and crane and dumped through stationary grids in order to process them in the plant.

7.2.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Kish Iron Crushing Operations	Drop Ball Crushing	1998	None
	Screening and Conveying	1998	None

7.2.3 Applicable Provisions and Regulations

- a. The "affected kish crushing operations" for the purpose of these unit-specific conditions, is the emission units/operations described in Conditions 7.2.1 and 7.2.2.
- b. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.
- c. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.
- d. The following emission limitations applied to the source as established in 35 IAC 212.316:
  - i. Emission Limitation for Crushing and Screening Operations. No person shall cause or allow fugitive particulate matter emissions generated by the crushing or screening of slag, stone, coke or coal to exceed an opacity of 10 percent [35 IAC 212.316(b)].
  - ii. Emission Limitations for Storage Piles. No person shall cause or allow fugitive particulate matter emissions from any storage pile to exceed an opacity of 10 percent, to be measured four ft from the pile surface [35 IAC 212.316(d)].

- iii. Emission Limitation for All Other Emission Units. Unless an emission unit has been assigned a particulate matter, PM<sub>10</sub>, or fugitive particulate matter emissions limitation elsewhere in this Section or in Subparts R or S of 35 IAC Part 212, no person shall cause or allow fugitive particulate matter emissions from any emission unit to exceed an opacity of 20 percent [35 IAC 212.316(f)].
- e. The Fugitive Particulate Operating Program and PM<sub>10</sub> Contingency Measure Plan are incorporated by reference into this permit and shall be amended accordingly to remain up to date.
- f. The affected kish crushing operations are subject to IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced after April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 (see also Attachment 2) [35 IAC 212.321(a)].

#### 7.2.4 Non-Applicability of Regulations of Concern

The affected kish crushing operations are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because no air pollution control device(s) is used at the source.

#### 7.2.5 Control Requirements and Work Practices

The affected kish crushing operations shall use control requirements and work practices outlined in the Fugitive Particulate Matter Operating Program (See Condition 5.3.3) and PM<sub>10</sub> Contingency Measure Plan (See Condition 5.3.4) for minimizing PM/PM<sub>10</sub> emissions released from the operations performed at this plant.

#### 7.2.6 Production and Emission Limitations

In addition to Condition 5.3.2 and the source-wide emission limitations in Condition 5.6, the affected kish crushing operations are subject to the following:

- a. Production Limits

Slag processed (crushing, screening and conveying):

Tons/hr	Tons/yr
200	160,000

- b. PM Emission Limits
  - i. Crushing: 0.6 lb/hr and 0.24 t/yr
  - ii. Screening: 0.72 lb/hr and 0.29 t/yr
  - iii. Conveying: 0.28 lb/hr and 0.11 t/yr
  
- c. The above limitations are being established in this permit pursuant to Title I of the CAA, specifically MSSCAM and/or PSD. The source has requested that the Illinois EPA establish emission limitations and other appropriate terms and conditions in this permit that limit the PM<sub>10</sub> emissions from the affected oxygen lance pipes below the levels that would trigger the applicability of these rules, consistent with the information provided in the CAAPP application [T1N].
  
- d. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total) [T1N].

7.2.7 Testing Requirements

- a. i. The Permittee shall have the opacity of the emissions from the affected kish crushing operations during representative weather and operating conditions determined by a qualified observer in accordance with USEPA Test Method 9.
  - A. Testing shall be conducted at least annually. For this purpose, testing shall first be conducted within three months of the issuance of this permit.
  - B. Upon written request by the Illinois EPA, such testing shall be conducted within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.
  
- ii. The duration of opacity observations for each test shall be at least 30 minutes (five 6-minute averages) unless the average opacities for the first 12 minutes of observations (two six-minute averages) are both less than 10.0 percent.
  
- iii. A. The Permittee shall notify the Illinois EPA at least 7 days in advance of the date and time of these tests, in order to allow the Illinois EPA to witness testing. This notification shall include the name and employer of the qualified observer(s).

- B. The Permittee shall promptly notify the Illinois EPA of any changes in the time or date for testing.
- iv. The Permittee shall provide a copy of its observer's readings to the Illinois EPA at the time of testing, if Illinois EPA personnel are present.
- v. The Permittee shall submit a written report for this testing within 15 days of the date of testing. This report shall include:
  - A. Date and time of testing.
  - B. Name and employer of qualified observer.
  - C. Copy of current certification.
  - D. Description of observation condition, including recent weather.
  - E. Description of the operating conditions of the affected operations.
  - F. Raw data.
  - G. Opacity determinations.
  - H. Conclusions.
- c. Upon written request by the Illinois EPA, the Permittee shall have the particulate matter (PM) emissions determined from the affected kish crushing operations, during representative weather and operating conditions, in accordance with USEPA Test Method 5, pursuant to Section 39.5(7)(d) of the Act. Such testing shall be conducted within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.
- d. The testing conditions from above are established in accordance with requirements of 39.5(7)(d) of the Act.

7.2.8 Monitoring Requirements

The Permittee shall perform inspections of the affected kish crushing operations on at least a monthly basis, including associated control measures, while the affected operations are in use, to confirm compliance with the requirements of Condition 7.2.5 and Condition 7.2.6, pursuant to Sections 39.5(7)(a) and (d) of the Act.

7.2.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected kish crushing operations, pursuant to Sections 39.5(7)(a) and (e) of the Act:

- a.
  - i. Amount of slag processed, tons/mo and tons/year.
  - ii. PM emissions with supporting calculations based from the record keeping as required by this condition.
  - iii. Information identifying any deviation from Condition 7.2.3, 7.2.5, or 7.2.6.
  - iv. A file containing the particulate matter emission factors for the affected kish crushing operations (lbs/ton) used by the Permittee to calculate emissions, with supporting documentation.
  - vi. A file containing the most current Operating Program for the affected slag processing units, with supporting documentation.
- b.
  - i. Information for the testing conducted pursuant to Condition 7.2.7, which shall at a minimum include the formal report for the measurements with date, time, personnel, the operating condition, and copies of the raw data sheets for the measurements.
  - ii. Information for the formal observations of opacity conducted pursuant to Condition 7.2.8(a). For each occasion on which observations are made, these records shall include the date, time, identity of the observer, a description of the various observations that were made, whether or not the affected slag processing unit(s) was running properly, and whether or not corrective action is necessary and was subsequently initiated.
- c. Recordkeeping pursuant to 35 IAC 212.316(g):
  - i. The owner or operator of any fugitive particulate matter emission unit shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations of this Section and shall submit to the Agency an annual report containing a summary of such information.
  - ii. The records required under this subsection shall include at least the following:
    - A. The name and address of the source.
    - B. The name and address of the owner and/or operator of the source.

- C. A map or diagram showing the location of all emission units controlled, including the location, identification, length, and width of roadways.
- iii. Copies of all records required by this Condition shall be submitted to the Agency within ten (10) working days after a written request by the Agency and shall be transmitted to the Agency by a company-designated person with authority to release such records.
- iv. The records required under this Condition shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Agency representatives during working hours.
- d. The Permittee shall maintain records of the following for the inspections required by Condition 7.2.8:
  - i. Date and time the inspection was performed and name(s) of inspection personnel.
  - ii. The observed condition of the control measures for each affected kish crushing operations, including the presence of any visible emissions.
  - iii. A description of any maintenance or repair associated with established control measures that are recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.
  - iv. A summary of the observed implementation or status of actual control measures, as compared to the established control measures.
- e. The Permittee shall maintain records of the following for each incident when the affected kish crusher operates without the established control measures:
  - i. The date of the incident.
  - ii. A description of the incident, including the established control measures that were not present or implemented; the established control measures that were present, if any; other control measures or mitigation measures that were implemented, if any; and the magnitude of the PM emissions during the incident.

- iii. The time at and means by which the incident was identified, e.g., scheduled inspection or observation by operating personnel.
- iv. The length of time after the incident was identified that the affected operations continued to operate before established control measures were in place or the operations were shutdown (to resume operation only after established control measures were in place) and, if this time was more than one hour, an explanation why this time was not shorter, including a description of any mitigation measures that were implemented during the incident.
- v. The estimated total duration of the incident, i.e., the total length of time that the affected operations ran without established control measures and the estimated amount of coal handled during the incident.
- vi. A discussion of the probable cause of the incident and any preventative measures taken.
- vii. A discussion whether Condition 7.2.3 may have been violated during the incident, with supporting explanation as needed.

7.2.10 Reporting Requirements

a. Reporting of Deviations

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected kish crushing operations with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

- i. Emissions of PM in excess of the limits specified in Conditions 7.2.3 or 7.2.6 within 30 days of such occurrence.
  - ii. Operation of the affected kish crushing operations in excess of the limits specified in Condition 7.2.6 within 30 days of such occurrence.
- b. i. The owner or operator of any fugitive particulate matter emission unit subject to 35 IAC Subpart K shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations of 35 IAC Subpart K and shall submit to the Agency an annual report containing a summary of such information, pursuant to 35 IAC 212.316(g)(1).

- ii. A quarterly report shall be submitted to the Agency stating the following: the dates any necessary control measures were not implemented, a listing of those control measures, the reasons that the control measures were not implemented, and any corrective actions taken. This information includes, but is not limited to, those dates when controls were not applied based on a belief that application of such control measures would have been unreasonable given prevailing atmospheric conditions, which shall constitute a defense to the requirements of this Section. This report shall be submitted to the Agency thirty (30) calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31, pursuant to 35 IAC 212.316(g)(5).

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected kish crushing operations.

7.2.12 Compliance Procedures

- a. Compliance with the PM/PM<sub>10</sub> emission limits of Condition 7.2.3 shall be achieved by the testing requirements of Condition 7.2.7 and the operating requirements of Condition 7.2.5.
- b. Compliance with the emission limits on Condition 7.2.6 shall be demonstrated by implementation of the operating requirements of Condition 7.2.5 and calculated based on the following emission factors:

PM Emission Factors	
<u>Equipment</u>	<u>(lb/ton)</u>
Crushers	0.0030
Screens	0.0036
Conveyors	0.0014

The emission factors (lb/ton) are from AP-42 Section 11.19.2, table 11.19.2-2 (dated 08/04).

Note: The emission factors provided above already take account the effects of control by wet suppression, therefore no further emission control credit is warranted.

7.3 Oxygen Lance Torch Operations

7.3.1 Description

Oxygen lance pipe cutting of oversized pieces of slag or iron.

7.3.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Oxygen Lance Torch Operations	Four (4) Lance Pipes	2002	None

7.3.3 Applicable Provisions and Regulations

- a. The "affected lance cutting operations" for the purpose of these unit-specific conditions, are the emission units/operations described in Conditions 7.3.1 and 7.3.2.
- b. Emission Limitations for Storage Piles. No person shall cause or allow fugitive particulate matter emissions from any storage pile to exceed an opacity of 10 percent, to be measured four ft from the pile surface [35 IAC 212.316(d)].
- c. The affected lance cutting operations are subject to 35 IAC 212.321(a), which provides that:  
  
No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced after April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 (see also Attachment 2) [35 IAC 212.321(a)].
- d. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.
- e. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

7.3.4 Non-Applicability of Regulations of Concern

The affected lance cutting operations are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because no air pollution control device(s) is used at the source.

7.3.5 Control Requirements and Work Practices

The affected lance cutting operations shall use control requirements and work practices outlined in the Fugitive Particulate Matter Operating Program (See Condition 5.3.3) and PM<sub>10</sub> Contingency Measure Plan (See Condition 5.3.4) for minimizing PM/PM<sub>10</sub> emissions released from the operations performed at this plant.

7.3.6 Production and Emission Limitations

- a. The Permittee shall not exceed the following production and emission limits:
  - i. Total steel scrap throughput shall not exceed 64,000 tons/year.
  - ii. Emissions of PM<sub>10</sub> from the affected oxygen lance pipe (cutting operations) shall not exceed 1.27 tons/month and 12.67 tons/yr.
- b. The above limitations are being established in this permit pursuant to Title I of the CAA, specifically MSSCAM and/or PSD. The source has requested that the Illinois EPA establish emission limitations and other appropriate terms and conditions in this permit that limit the PM<sub>10</sub> emissions from the affected oxygen lance pipes below the levels that would trigger the applicability of these rules, consistent with the information provided in the CAAPP application [T1N].
- c. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total) [T1N].

7.3.7 Testing Requirements

- a. Upon request from the Illinois EPA, opacity emission evaluation shall be conducted in accordance with procedures published in 40 CFR Part 60, Appendix A, Method 9.
- b.
  - i. The Permittee shall have to measure the opacity of the emissions from the affected operations during representative weather and operating conditions determined by a qualified observer in accordance with

USEPA Test Method 9, as further specified below, pursuant to Section 39.5(7)(d) of the Act.

- A. For each affected operation, testing shall be conducted at least annually.
- B. Upon written request by the Illinois EPA, such testing shall be conducted for specific affected operation(s) within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.
  - ii. The duration of opacity observations for each test shall be at least 30 minutes (five 6-minute averages) unless the average opacities for the first 12 minutes of observations (two six-minute averages) are both less than 10.0 percent.
- c. The testing conditions from above are established in accordance with requirements of 39.5(7)(p) of the Act.

#### 7.3.8 Monitoring Requirements

Monitoring requirements are not set for the affected lance cutting operations.

#### 7.3.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected lance cutting operations, pursuant to Sections 39.5(7)(a) and (e) of the Act:

- b. Steel scrap throughput (tons/mo and tons/yr).
- b. Records for implementation of the operating program pursuant to Conditions 5.3.3 and 7.3.5.
- c. Records of the tests and opacity observations as established in Condition 7.3.7.
- d. PM<sub>10</sub> emissions calculated in accordance with compliance procedures of Condition 7.3.12.

#### 7.3.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected lance cutting operations with the permit requirements, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

- a. Emissions of PM/PM<sub>10</sub> in excess of the limits specified in Conditions 7.3.3 and 7.3.6 within 30 days of such occurrence.
- b. Production limits in excess of those specified in Condition 7.3.6 within 30 days of such occurrence.

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected lance cutting operations.

7.3.12 Compliance Procedures

- a. For the affected lance cutting operations, compliance with the applicable standards of Condition 7.3.3 shall be achieved by the implementation of control requirements/work practices outlined in Conditions 5.3.3 and 7.3.5, and testing requirements in Condition 7.3.7.
- b. Compliance with the production and emission limits of Condition 7.3.6 shall be achieved by the keeping appropriate records as required by Condition 7.3.9 and maintaining emission calculations based on the emission factors presented by the Permittee and equal to 0.396 lb PM<sub>10</sub>/ton of scrap processed. These emission factors have been derived from the tests of cutting identical carbon steel scrap and presented in the paper of the Swedish Institute of Production Engineering Research for plasma cutting of stainless and mild steel.

7.4 Asphalt Chip Screening Operations

7.4.1 Description

Various aggregate asphalt materials are screened and sized for resale.

7.4.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Asphalt Chip Screening	Double Deck Scalping Screen	1998	None

7.4.3 Applicable Provisions and Regulations

- a. The "affected asphalt chip screening operations" for the purpose of these unit-specific conditions, are the emission units/operations described in Conditions 7.4.1 and 7.4.2.
- b. Emission Limitation for Crushing and Screening Operations. No person shall cause or allow fugitive particulate matter emissions generated by the crushing or screening of slag, stone, coke or coal to exceed an opacity of 10 percent [35 IAC 212.316(b)].
- c. Emission Limitations for Storage Piles. No person shall cause or allow fugitive particulate matter emissions from any storage pile to exceed an opacity of 10 percent, to be measured four ft from the pile surface [35 IAC 212.316(d)].
- d. Emission Limitation for All Other Emission Units. Unless an emission unit has been assigned a particulate matter, PM<sub>10</sub>, or fugitive particulate matter emissions limitation elsewhere in this Section or in Subparts R or S of 35 IAC Part 212, no person shall cause or allow fugitive particulate matter emissions from any emission unit to exceed an opacity of 20 percent [35 IAC 212.316(f)].
- e. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.
- f. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission

units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

- g. The Fugitive Particulate Operating Program and PM<sub>10</sub> Contingency Measure Plan are incorporated by reference into this permit and shall be amended accordingly to remain up to date (see Condition 5.3.3 and 5.3.4, respectively).
- h. The affected asphalt chip screening operations are subject to IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced after April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 (see also Attachment 2) [35 IAC 212.321(a)].

#### 7.4.4 Non-Applicability of Regulations of Concern

The affected asphalt chip screening operations are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because no air pollution control device(s) is used at the source.

#### 7.4.5 Control Requirements and Work Practices

- a. The affected asphalt chip screening operations shall use control requirements and work practices outlined in the Fugitive Particulate Matter Operating Program (See Condition 5.3.3) and PM<sub>10</sub> Contingency Measure Plan (See Condition 5.3.4) for minimizing PM/PM<sub>10</sub> emissions released from the operations performed at this plant.
- b. The emission limitations of 35 IAC 212.324 are not applicable to any emission unit subject to a specific emissions standard or limitation contained in 35 IAC Subpart R, Primary and Fabricated Metal Products and Machinery Manufacture pursuant to 35 IAC 212.324(a)(3)(C).
- c.
  - i. Pursuant to 35 IAC 212.308, crushers, screening operations, elevators, conveyor transfer points, conveyors, storage bins, etc., shall be sprayed with water or a surfactant solution, utilize choke-feeding or be treated by an equivalent method in accordance with an operating program.
  - ii. Water sprays shall be used utilized at an adequate flow rate\* on the emission units associated with the affected slag processing units (e.g., crushers, conveyors, and stockpiles, etc.) as necessary, except

when weather conditions are below or expected to fall below freezing temperatures, to produce an adequate moisture content percentage by weight\* or higher to reduce particulate matter emissions and to maintain compliance with the applicable visible emissions standards for each piece of processing equipment used in the production process.

\* The water flow rate and moisture content percentage by weight will be established during the testing of Condition 7.4.7.

#### 7.4.6 Production and Emission Limitations

- a. The Permittee shall not exceed the following production and emission limits:
  - i. Total asphalt chip throughput shall not exceed 200,000 tons/year.
  - ii. Annual emissions of PM/PM<sub>10</sub> from the affected asphalt chip screening operations shall not exceed the following:
    - A. PM - 2.5 t/yr
    - B. PM<sub>10</sub> - 0.87 t/yr
- b. The above limitations are being established in this permit pursuant to Title I of the CAA, specifically MSSCAM and/or PSD. The source has requested that the Illinois EPA establish emission limitations and other appropriate terms and conditions in this permit that limit the PM/PM<sub>10</sub> emissions from the affected asphalt chip screening operations below the levels that would trigger the applicability of these rules, consistent with the information provided in the CAAPP application [T1N].
- c. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total) [T1N].

#### 7.4.7 Testing Requirements

- a. i. The Permittee shall have the opacity of the emissions from the affected asphalt chip screening operations during representative weather and operating conditions determined by a qualified observer in accordance with USEPA Test Method 9.
  - A. Testing shall be conducted at least annually. For this purpose, testing shall first be conducted within three months of the issuance of this permit.

- B. Upon written request by the Illinois EPA, such testing shall be conducted within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.
    - ii. The duration of opacity observations for each test shall be at least 30 minutes (five 6-minute averages) unless the average opacities for the first 12 minutes of observations (two six-minute averages) are both less than 10.0 percent.
    - iii.
      - A. The Permittee shall notify the Illinois EPA at least 7 days in advance of the date and time of these tests, in order to allow the Illinois EPA to witness testing. This notification shall include the name and employer of the qualified observer(s).
      - B. The Permittee shall promptly notify the Illinois EPA of any changes in the time or date for testing.
    - iv. The Permittee shall provide a copy of its observer's readings to the Illinois EPA at the time of testing, if Illinois EPA personnel are present.
    - v. The Permittee shall submit a written report for this testing within 15 days of the date of testing. This report shall include:
      - A. Date and time of testing.
      - B. Name and employer of qualified observer.
      - C. Copy of current certification.
      - D. Description of observation condition, including recent weather.
      - E. Description of the operating conditions of the affected operations.
      - F. Raw data.
      - G. Opacity determinations.
      - H. Conclusions.
  - b. At the time of the testing required by Condition 7.4.7(a)(i), the Permittee shall establish the water flow rate for the spray bars and the moisture content percentage by weight of the asphalt chips to be used for Condition 7.4.5(c)(ii).

- iii. The water flow rate shall be the average water flow rate utilized during a successful compliance test required by Condition 7.4.7(a).
- iv. The moisture content percentage by weight shall be the resulting moisture content percentage by weight of the slag after the application of the average water flow rate utilized during a successful compliance test required by Condition 7.4.7(a).
- c. Upon written request by the Illinois EPA, the Permittee shall have the particulate matter (PM) emissions determined from the affected unit(s)/operation(s), during representative weather and operating conditions, in accordance with USEPA Test Method 5, pursuant to Section 39.5(7)(d) of the Act. Such testing shall be conducted within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.
- d. The moisture content of a representative sample of the slag processed in the affected slag processing units shall be measured at least once per week using ASTM Procedures (C566-97) for total moisture content of material.
- e. The testing conditions from above are established in accordance with requirements of 39.5(7)(d) of the Act.

#### 7.4.8 Monitoring Requirements

- a. The Permittee shall perform inspections of the affected asphalt chip screening operations on at least a monthly basis, including associated control measures, while the affected operations are in use, to confirm compliance with the requirements of Condition 7.4.5 and Condition 7.4.6.
- b. The water supply to the spray equipment shall be equipped with a metering device used to determine water usage for the control of particulate matter emissions.
- c. The monitoring requirements from above are established in accordance with requirements of 39.5(7)(d) of the Act.

#### 7.4.9 Recordkeeping Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for the affected asphalt chip screening operations, pursuant to Section 39.5(7)(b) of the Act:

- a. Monthly and annual throughput of asphalt chips processed by the source (tons/month, tons/year).

- b. PM emissions with supporting calculations based from the record keeping as required by this condition.
- c. Information identifying any deviation from Condition 7.4.3, 7.4.5, or 7.4.6.
- d. A file containing the particulate matter emission factors for the affected asphalt chip screening operations (lbs/ton) used by the Permittee to calculate emissions, with supporting documentation.
- e. A file containing the most current Operating Program for the affected asphalt chip screening operations, with supporting documentation.
- f. Date and utilization records for the water spray or surfactant solution application pursuant to Condition 7.4.5.
- g.
  - i. Information for the testing conducted pursuant to Condition 7.4.7, which shall at a minimum include the formal report for the measurements with date, time, personnel, the operating condition, and copies of the raw data sheets for the measurements.
  - ii. Information for the formal observations conducted pursuant to Condition 7.4.8(a). For each occasion on which observations are made, these records shall include the date, time, identity of the observer, a description of the various observations that were made, whether or not the affected asphalt chip processing was running properly, and whether or not corrective action is necessary and was subsequently initiated.
- h. Recordkeeping pursuant to 35 IAC 212.316(g):
  - i. The owner or operator of any fugitive particulate matter emission unit shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations of this Section and shall submit to the Agency an annual report containing a summary of such information.
  - ii. The records required under this subsection shall include at least the following:
    - A. The name and address of the source.
    - B. The name and address of the owner and/or operator of the source.
    - C. A map or diagram showing the location of all emission units controlled, including the

location, identification, length, and width of roadways.

- D. For each application of water or chemical solution to roadways by truck: the name and location of the roadway controlled, application rate of each truck, frequency of each application, width of each application, identification of each truck used, total quantity of water or chemical used for each application and, for each application of chemical solution, the concentration and identity of the chemical.
  - E. For application of physical or chemical control agents: the name of the agent, application rate and frequency, and total quantity of agent and, if diluted, percent of concentration, used each day.
  - F. A log recording incidents when control measures were not used and a statement of explanation.
- iii. Copies of all records required by this Condition shall be submitted to the Agency within ten (10) working days after a written request by the Agency and shall be transmitted to the Agency by a company-designated person with authority to release such records.
  - iv. The records required under this Condition shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Agency representatives during working hours.
- i. The Permittee shall maintain records of the following for the inspections required by Condition 7.4.8:
    - i. Date and time the inspection was performed and name(s) of inspection personnel.
    - ii. The observed condition of the control measures for each affected asphalt chip screening operations processing units, including the presence of any visible emissions.
    - iii. A description of any maintenance or repair associated with established control measures that are recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.

- iv. A summary of the observed implementation or status of actual control measures, as compared to the established control measures.
- k. The Permittee shall maintain records of the following for each incident when any affected asphalt chip screening operated without the established control measures:
  - i. The date of the incident.
  - ii. A description of the incident, including the established control measures that were not present or implemented; the established control measures that were present, if any; other control measures or mitigation measures that were implemented, if any; and the magnitude of the PM emissions during the incident.
  - iii. The time at and means by which the incident was identified, e.g., scheduled inspection or observation by operating personnel.
  - iv. The length of time after the incident was identified that the affected operations continued to operate before established control measures were in place or the operations were shutdown (to resume operation only after established control measures were in place) and, if this time was more than one hour, an explanation why this time was not shorter, including a description of any mitigation measures that were implemented during the incident.
  - v. The estimated total duration of the incident, i.e., the total length of time that the affected operations ran without established control measures and the estimated amount of coal handled during the incident.
  - vi. A discussion of the probable cause of the incident and any preventative measures taken.
  - vii. A discussion whether Condition 7.4.3 may have been violated during the incident, with supporting explanation as needed.
- l. Records addressing the moisture content:
  - i. The Permittee shall maintain records of all moisture content tests performed in accordance with Condition 7.4.7, including: date, time, individual performing test, and location of sample (e.g., prior to crushing, stockpiles, etc.).
  - ii. The Permittee shall maintain operating logs for the water spray equipment, including dates and times of

usage, malfunctions (type, date, and measures taken to correct), water pressure, and dates when there was at least 0.25" of rainfall during the preceding 24 hours and the water spray equipment was not operated.

- iii. The Permittee shall maintain weekly records of water consumption in the spray equipment, as determined by the meter required by Condition 7.4.8.
- iv. The Permittee shall maintain records of the established water flow rate and moisture content percentage from Condition 7.4.7 for Condition 7.4.5.

#### 7.4.10 Reporting Requirements

##### a. Reporting of Deviations

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected asphalt chip screening operations with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

- i. Emissions of PM in excess of the limits specified in Conditions 7.4.3 or 7.4.6 within 30 days of such occurrence.
  - ii. Operation of the affected asphalt chip screening operations in excess of the limits specified in Condition 7.4.6 within 30 days of such occurrence.
  - iii. Failure to utilize water sprays or surfactant solution application as required by 7.4.5 or follow the particulate matter Operating Program as required by 7.4.5 within 30 days of such occurrence.
- b. i. The owner or operator of any fugitive particulate matter emission unit subject to 35 IAC Subpart K shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations of 35 IAC Subpart K and shall submit to the Agency an annual report containing a summary of such information, pursuant to 35 IAC 212.316(g)(1).
- ii. A quarterly report shall be submitted to the Agency stating the following: the dates any necessary control measures were not implemented, a listing of those control measures, the reasons that the control measures were not implemented, and any corrective actions taken. This information includes, but is not limited to, those dates when controls were not

applied based on a belief that application of such control measures would have been unreasonable given prevailing atmospheric conditions, which shall constitute a defense to the requirements of this Section. This report shall be submitted to the Agency thirty (30) calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31, pursuant to 35 IAC 212.316(g)(5).

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected asphalt chip screening operations.

7.4.12 Compliance Procedures

- a. Compliance with the PM/PM<sub>10</sub> emission limits of Condition 7.4.3 shall be achieved by the implementation of control requirements/work practices outlined in Conditions 5.3.3 and 7.4.5, and testing requirements in Condition 7.4.7.
- b. Compliance with the production and emission limits of Condition 7.4.6 shall be achieved by the keeping appropriate records as required by Condition 7.4.9 and maintaining emission calculations based on the emission factors presented by the USEPA FIRE database for material screening operations (SCC 30502002) and equal to the following values presented for the uncontrolled operations:
  - i. 0.0087 lb PM<sub>10</sub>/ton of material processed.
  - ii. 0.025 lb PM/ton of material processed.

## 7.5 Gasoline Storage and Dispensing

### 7.5.1 Description

Gasoline storage and dispensing is used for servicing the facility's fleet.

Note: This narrative description is for informational purposes only and is not enforceable.

### 7.5.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Gasoline Storage	1,000 gallons storage tank	1996	Control Practices: Submerged loading pipe (all tanks) and Stage I/II systems

### 7.5.3 Applicable Provisions and Regulations

- a. The "affected gasoline storage tank" for the purpose of these unit-specific conditions, is the emission unit and operations described in Conditions 7.5.1 and 7.5.2 above.
- b. The affected gasoline storage tank is subject to the following:
  - i. No person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe or an equivalent device approved by the Illinois EPA according to the provisions of 35 IAC 201, or unless such tank is a pressure tank as described in 35 IAC 219.121(a) or is fitted with a recovery system as described in 35 IAC 219.121(b)(2) [35 IAC 219.122(b)].
  - ii. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 IAC 219.302, 219.303, or 219.304 and the following exemption: If no odor nuisance exists the limitation of 35 IAC 219 Subpart G shall only apply to photochemically reactive material [35 IAC 219.301].
  - iii. Pursuant to 35 IAC 219.583(a), no person shall cause or allow the transfer of gasoline from any delivery

vessel into any stationary storage tank at a gasoline dispensing operation unless:

- A. The tank is equipped with a submerged loading pipe [35 IAC 219.583(a)(1)]; and
- B. Pursuant to 35 IAC 219.583(a)(2), the vapors displaced from the storage tank during filling are processed by a vapor control system that includes one or more of the following:
  - 1. A vapor collection system that meets the requirements of Condition 7.12.5(b) (see also 35 IAC 219.583(d)(4)) [35 IAC 219.583(a)(2)(A)]; or
  - 2. A refrigeration-condensation system or any other system approved by the Illinois EPA that recovers at least 90 percent by weight of all vaporized organic material from the equipment being controlled [35 IAC 219.583(a)(2)(B)];
  - 3. The delivery vessel displays the appropriate sticker pursuant to the requirements of 35 IAC 219.584(b) or (d) [35 IAC 219.583(a)(2)(C)]; and
- C. Pursuant to 35 IAC 219.583(a)(3), all tank vent pipes are equipped with pressure/vacuum relief valves with the following design specifications:
  - 1. The pressure/vacuum relief valve shall be set to resist a pressure of at least 3.5 inches water column and to resist a vacuum of no less than 6.0 inches water column; or
  - 2. The pressure/vacuum relief valve shall meet the requirements of 35 Ill. Adm. Code 219.586(c)

#### 7.5.4 Non-Applicability of Regulations of Concern

- a. This permit is issued based on the affected gasoline storage tank not being subject to the New Source Performance Standards (NSPS) for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels), 40 CFR Part 60, Subpart Kb, because the affected tank is less than 40 cubic meters (10,566 gallons).

- b. This permit is issued based on the affected gasoline storage tank not being subject to 35 IAC 219.121, because the affected tank is less than 40,000 gallons.
- c. This permit is issued based on the affected gasoline storage tank not being subject to 35 IAC 219.122(a), because the affected tank is less than 40,000 gallons.
- d. The affected gasoline storage and dispensing operations are not part of bulk gasoline plant (35 IAC 219.581) and bulk gasoline terminals (35 IAC 219.582) pursuant to appropriate definitions placed in 35 IAC Part 211.
- e. This permit is issued based on the affected gasoline storage tank not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because each affected tank does not have potential pre-control device emissions of the applicable regulated air pollutant that equals or exceeds major source threshold levels.

7.5.5 Control Requirements and Work Practices

The affected gasoline storage tank is subject to the following control requirements and work practices:

- a. Pursuant to 35 IAC 219.583(c), each owner of a gasoline dispensing operation shall:
  - i. Install all control systems and make all process modifications required by Condition 7.5.3(b)(iii) (see also 35 IAC 219.583(a)) [35 IAC 219.583(c)(1)];
  - ii. Provide instructions to the operator of the gasoline dispensing operation describing necessary maintenance operations and procedures for prompt notification of the owner in case of any malfunction of a vapor control system [35 IAC 219.583(c)(2)]; and
  - iii. Repair, replace or modify any worn out or malfunctioning component or element of design [35 IAC 219.583(c)(3)].
- b. Pursuant to 35 IAC 219.583(d), each operator of a gasoline dispensing operation shall:
  - i. Maintain and operate each vapor control system in accordance with the owner's instructions [35 IAC 219.583(d)(1)];
  - ii. Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system [35 IAC 219.583(d)(2)];

- iii. Maintain gauges, meters or other specified testing devices in proper working order [35 IAC 219.583(d)(3)]; and
- iv. Pursuant to 35 IAC 219.583(d)(4), operate the vapor collection system and delivery vessel unloading points in a manner that prevents:
  - A. A reading equal to or greater than 100 percent of the lower explosive limit (LEL measured as propane) when tested in accordance with the procedure described in EPA 450/2-78-051 Appendix B [35 IAC 219.583(d)(4)(A)]; and
  - B. Avoidable leaks of liquid during the filling of storage tanks [35 IAC 214.583(d)(4)(B)].

7.5.6 Production and Emission Limitations

Production and emission limitations are not set for the affected gasoline storage tank.

7.5.7 Testing Requirements

Within 15 business days after discovery of the leak by the owner, operator, or the Illinois EPA, the Permittee shall repair and retest a vapor collection system which exceeds the limits of Condition 7.6.5(b)(iv)(A) (see also 35 IAC 219.583(d)(4)(A)) [35 IAC 219.583(d)(5)].

7.5.8 Monitoring Requirements

Monitoring requirements are not set for the affected gasoline storage tank.

7.5.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected gasoline storage tanks, pursuant to Sections 39.5(7)(a) and (e) of the Act:

- a. Records of the testing and repair of the vapor collection system pursuant to Condition 7.6.7 [Section 39.5(7)(e) of the Act].
- b. Records of gasoline throughput in gallons per month and gallons per year.
- c. Records of emissions in pounds per month and tons per year using the methods in Condition 7.6.12.

7.5.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Section, of deviations of the affected gasoline storage tank with the permit requirements, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

The Permittee shall report whether operations of the affected gasoline storage tank deviated from the requirements specified in Subsection 7.6.3 and 7.6.5 within 30 days of such occurrence.

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected gasoline storage tank.

7.5.12 Compliance Procedures

- a. Compliance with Conditions 7.6.3(b) is considered to be assured by the use of submerged loading pipe and vapor balance system as required in Condition 7.6.5 and by the recordkeeping requirement of Condition 7.6.9.
- b. Emissions of regulated air pollutants (including HAP's) shall be calculated in accordance with the most current version of the TANKS program.

## 7.6 Fugitive Emissions

### 7.6.1 Description

The facility emits fugitive dust from vehicle traffic, wind erosion of piles, roadways, parking lots and other open areas not associated with the processing operations addressed in the previous subsections of Section 7.

Note: This narrative description is for informational purposes only and is not enforceable.

### 7.6.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Fugitive Emissions	BF slag material handling; BOF slag material handling; BOF slag piles; Material handling; Roadways and parking areas	N/A	None

### 7.6.3 Applicable Provisions and Regulations

- a. The "affected areas of fugitive emissions" for the purpose of these unit-specific conditions, is the emission unit and operation described in Conditions 7.6.1 and 7.6.2 above.
- b. The affected areas of fugitive emissions are subject to 35 IAC 212.301 which provides that no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source [35 IAC 212.301].
- c. The affected areas of fugitive emissions are subject to 35 IAC 212.306 which provides that all normal traffic pattern roads and parking facilities which are located on mining or manufacturing property shall be paved or treated with water, oils or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program required by 35 IAC 212.309, 212.310 and 212.312.
- d. Applicable emission limitations established by 35 IAC 212.316:

- i. Emission Limitations for Roadways or Parking Areas. No person shall cause or allow fugitive particulate matter emissions from any roadway or parking area to exceed an opacity of 10 percent, except that the opacity shall not exceed 5 percent at quarries with a capacity to produce more than 1 million T/yr of aggregate.
  - ii. Emission Limitations for Storage Piles. No person shall cause or allow fugitive particulate matter emissions from any storage pile to exceed an opacity of 10 percent, to be measured four ft from the pile surface.
  - iii. Additional Emissions Limitations for the Granite City Vicinity as Defined in 35 IAC 212.316(e)(1):

Emissions Limitations for Roadways or Parking Areas Located at Slag Processing Facilities or Integrated Iron and Steel Manufacturing Plants. No person shall cause or allow fugitive particulate matter emissions from any roadway or parking area located at a slag processing facility or integrated iron and steel manufacturing plant to exceed an opacity of 5 percent.
  - iv. Emission Limitation for All Other Emission Units (35 IAC 212.316(f)). Unless an emission unit has been assigned a particulate matter, PM<sub>10</sub>, or fugitive particulate matter emissions limitation elsewhere in 35 IAC 212.316 or in Subparts R or S of 35 IAC Part 212, no person shall cause or allow fugitive particulate matter emissions from any emission unit to exceed an opacity of 20 percent.
- e. This stationary source meets the criteria in 35 IAC 212.700 and is required to prepare and submit a contingency measure plan reflecting the PM<sub>10</sub> emission reductions as set forth in 35 IAC 212.701 and 212.703. The plan was submitted to the Illinois EPA and is incorporated by reference into this permit. This plan shall be implemented by the Permittee in accordance with 35 IAC 212.704.
- f. i. The Permittee shall implement a fugitive dust operating program for affected areas of fugitive emissions in accordance with 35 IAC 212.304 through 212.310 and 212.312.
  - ii. The operating program shall be amended from time to time by the owner or operator so that the operating program is current. Such amendments shall be consistent with 35 IAC Part 212 Subpart K and shall be submitted to the Illinois EPA for its review [35 IAC 212.312].

- g. Both PM<sub>10</sub> contingency plan and the fugitive dust operating program are incorporated by reference into this permit and shall be amended accordingly to remain up to date.

#### 7.6.4 Non-Applicability of Regulations of Concern

The affected areas of fugitive emissions are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because no air pollution control device(s) is used at the source.

#### 7.6.5 Control Requirements and Work Practices

- a. The Permittee shall follow good operating practices for the affected areas of fugitive PM emissions, including periodic inspection, routine maintenance and prompt repair of defects.
- b. The Permittee shall implement the operating programs that reflect good air pollution practices to minimize emissions of particulate matter from the affected units.
- c. Pursuant to 35 IAC 212.304:
  - i. All storage piles of materials with uncontrolled emissions of fugitive particulate matter in excess of 45.4 Mg per year (50 T/yr) which are located within a source whose potential particulate emissions from all emission units exceed 90.8 Mg/yr (100 T/yr) shall be protected by a cover or sprayed with a surfactant solution or water on a regular basis, as needed, or treated by an equivalent method, in accordance with the operating program required by Condition 7.3.5(e), pursuant to 35 IAC 212.304(a).
  - ii. 35 IAC 212.304(a) shall not apply to a specific storage pile if the owner or operator of that pile proves to the Agency that fugitive particulate emissions from that pile do not cross the property line either by direct wind action or reentrainment, pursuant to 35 IAC 212.304(b).
- d. Pursuant to 35 IAC 212.306, all normal traffic pattern access areas surrounding storage piles specified in Condition 7.6.5(c) and all normal traffic pattern roads and parking facilities which are located on mining or manufacturing property shall be paved or treated with water, oils or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program required by Condition 7.6.5(e).

- e. i. The affected areas of fugitive PM emissions shall be operated under the provisions of an operating program, consistent with the requirements set forth in 35 IAC 212.310 and 212.312, and prepared by the owner or operator and submitted to the Agency for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions, pursuant to 35 IAC 212.309(a).
- ii. Minimum Operating Program: As a minimum the operating program shall include the following, pursuant to 35 IAC 212.310:
  - A. The name and address of the source.
  - B. The name and address of the owner or operator responsible for execution of the operating program.
  - C. A map or diagram of the source showing approximate locations of storage piles, conveyor loading operations, normal traffic pattern access areas surrounding storage piles and all normal traffic patterns within the source.
  - D. Location of unloading and transporting operations with pollution control equipment.
  - E. A detailed description of the best management practices utilized to achieve compliance with this Subpart, including an engineering specification of particulate collection equipment, application systems for water, oil, chemicals and dust suppressants utilized and equivalent methods utilized.
  - F. Estimated frequency of application of dust suppressants by location of materials.
  - G. Such other information as may be necessary to facilitate the Agency's review of the operating program.
- iii. The operating program shall be amended from time to time by the owner or operator so that the operating program is current. Such amendments shall be consistent with this 35 IAC 212.310 and shall be submitted to the Agency for its review, pursuant to 35 IAC 212.312.

7.6.6 Production and Emission Limitations

Production and emission limitations are not set for the affected areas of fugitive PM emissions.

7.6.7 Testing Requirements

- a. i. Upon written request by the Illinois EPA, the Permittee shall have the opacity determined from the affected area of fugitive PM sources, during representative weather and operating conditions, determined by a qualified observer in accordance with USEPA Test Method 9. Such testing shall be conducted within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.
- ii. The duration of opacity observations for each test shall be at least 30 minutes (five 6-minute averages) unless the average opacities for the first 12 minutes of observations (two six-minute averages) are both less than 10.0 percent.
- iii. A. The Permittee shall notify the Illinois EPA at least 7 days in advance of the date and time of these tests, in order to allow the Illinois EPA to witness testing. This notification shall include the name and employer of the qualified observer(s).
- B. The Permittee shall promptly notify the Illinois EPA of any changes in the time or date for testing.
- iv. The Permittee shall provide a copy of its observer's readings to the Illinois EPA at the time of testing, if Illinois EPA personnel are present.
- v. The Permittee shall submit a written report for this testing within 15 days of the date of testing. This report shall include:
  - A. Date and time of testing.
  - B. Name and employer of qualified observer.
  - C. Copy of current certification.
  - D. Description of observation condition, including recent weather.
  - E. Description of the operating conditions of the affected operations.
  - F. Raw data.

G. Opacity determinations.

H. Conclusions.

- b. The testing conditions from above are established in accordance with requirements of 39.5(7)(d) of the Act.

#### 7.6.8 Monitoring Requirements

The Permittee shall perform inspections of the affected areas of PM fugitive emissions on at least a monthly basis, including associated control measures, while the affected operations are in use, to confirm compliance with the requirements of Condition 7.6.5. These inspections shall be performed with personnel not directly involved in the day-to-day operation of the affected operations and may be scheduled so that only a number of affected operations are reviewed during each inspection, provided however, that all affected operations that are in routine service shall be inspected at least once during each calendar month. [Sections 39.5(7)(a) and (d) of the Act]

#### 7.6.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected areas of PM fugitive emissions, pursuant to Sections 39.5(7)(a) and (e) of the Act:

a. Records required by 35 IAC 212.316(g):

- i. The owner or operator of any fugitive particulate matter emission unit subject to 35 IAC 212.316 shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations of 212.316 and shall submit to the Illinois EPA an annual report containing a summary of such information.
- ii. The records shall include at least the following:
  - A. The name and address of the source;
  - B. The name and address of the owner and/or operator of the source;
  - C. A map or diagram showing the location of all emission units controlled, including the location, identification, length, and width of roadways;
  - D. For each application of water or chemical solution to roadways by truck: the name and location of the roadway controlled, application rate of each truck, frequency of each

application, width of each application, identification of each truck used, total quantity of water or chemical used for each application and, for each application of chemical solution, the concentration and identity of the chemical;

- E. For application of physical or chemical control agents: the name of the agent, application rate and frequency, and total quantity of agent, and, if diluted, percent of concentration, used each day; and
  - F. A log recording incidents when control measures were not used and a statement of explanation.
- iii. Copies of all records required by 35 IAC 212.316 shall be submitted to the Illinois EPA within ten (10) working days after a written request by the Illinois EPA and shall be transmitted to the Illinois EPA by a company-designated person with authority to release such records.
  - iv. The records required under 35 IAC 212.316 shall be kept at the source and be available for inspection and copying by Illinois EPA representatives during working hours.
- b. The Permittee shall maintain the most current versions of the PM<sub>10</sub> contingency plan and the fugitive control operating program.
  - c. Records of opacity readings conducted in accordance with Condition 7.6.7.
  - d. Annual emissions of PM/PM<sub>10</sub> calculated in accordance with compliance procedures of Condition 7.6.12.

#### 7.6.10 Reporting Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for the affected areas of PM fugitive emissions to demonstrate compliance with Conditions 5.6.1, 7.6.3 and 7.6.5, pursuant to Section 39.5(7)(b) of the Act:

- a.
  - i. PM emissions with supporting calculations based from the record keeping as required by this condition.
  - ii. Information identifying any deviation from Condition 7.6.3 and 7.6.5.
  - iii. A file containing the particulate matter emission factors for the affected fugitive PM sources and

affected open areas used by the Permittee to calculate emissions, with supporting documentation.

- iv. A file containing the most current Operating Program for the affected fugitive PM sources, with supporting documentation.
  - v. Date and utilization records for the water spray or surfactant solution application pursuant to Condition 7.6.5.
  - vi. Data required to determine the appropriate PM emission factor for vehicle travel on paved and unpaved roads, as determined from the most recent version of USEPA FIRE (Factor Information Retrieval) software.
- b. i. Information for the testing conducted pursuant to Condition 7.6.7, which shall at a minimum include the formal report for the measurements with date, time, personnel, the operating condition, and copies of the raw data sheets for the measurements.
- c. Recordkeeping pursuant to 35 IAC 212.316(g):
- i. The owner or operator of any fugitive particulate matter emission unit shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations of this Section and shall submit to the Agency an annual report containing a summary of such information.
  - ii. The records required under this subsection shall include at least the following:
    - A. The name and address of the source.
    - B. The name and address of the owner and/or operator of the source.
    - C. A map or diagram showing the location of all emission units controlled, including the location, identification, length, and width of roadways.
    - D. For each application of water or chemical solution to roadways by truck: the name and location of the roadway controlled, application rate of each truck, frequency of each application, width of each application, identification of each truck used, total quantity of water or chemical used for each application and, for each application of

chemical solution, the concentration and identity of the chemical.

- E. For application of physical or chemical control agents: the name of the agent, application rate and frequency, and total quantity of agent and, if diluted, percent of concentration, used each day.
  - F. A log recording incidents when control measures were not used and a statement of explanation.
- iii. Copies of all records required by this Condition shall be submitted to the Agency within ten (10) working days after a written request by the Agency and shall be transmitted to the Agency by a company-designated person with authority to release such records.
  - iv. The records required under this Condition shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Agency representatives during working hours.
- d. The Permittee shall maintain records of the following for the inspections required by Condition 7.6.8:
- i. Date and time the inspection was performed and name(s) of inspection personnel.
  - ii. The observed condition of the control measures, including the presence of any visible emissions.
  - iii. A description of any maintenance or repair associated with established control measures that is recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.
  - iv. A summary of the observed implementation or status of actual control measures, as compared to the established control measures.
- e. The Permittee shall maintain records of the following for each incident when the affected area of PM fugitive emissions operated without the established control measures:
- i. The date of the incident and identification of the affected slag handling units that were involved.

- ii. A description of the incident, including the established control measures that were not present or implemented; the established control measures that were present, if any; other control measures or mitigation measures that were implemented, if any; and the magnitude of the PM emissions during the incident.
- iii. The time at and means by which the incident was identified, e.g., scheduled inspection or observation by operating personnel.
- iv. The length of time after the incident was identified that the affected area of PM fugitive emissions continued to operate before established control measures were in place or the fugitive PM sources were shutdown (to resume operation only after established control measures were in place) and, if this time was more than one hour, an explanation why this time was not shorter, including a description of any mitigation measures that were implemented during the incident.
- v. The estimated total duration of the incident, i.e., the total length of time that the affected area of PM fugitive emissions ran without established control measures.
- vi. A discussion of the probable cause of the incident and any preventative measures taken.

7.6.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected areas of PM fugitive emissions.

7.6.12 Compliance Procedures

- a. Compliance with the PM/PM<sub>10</sub> emission limits of Condition 7.6.3 shall be achieved by the implementation of control requirements/work practices outlined in Conditions 5.3.3 and 7.6.5, and testing requirements in Condition 7.6.7.
- b. Compliance with the control/work practice requirements of Condition 7.6.5 shall be achieved by keeping the appropriate operating/maintenance records, as required by Condition 7.6.10.
- c. Fugitive emissions of PM/PM<sub>10</sub> for unpaved roads shall be calculated based on the following uncontrolled emission factors presented by FIRE (SCC 30300833, Primary Iron Production; Unpaved Roads, Heavy Duty Vehicles):
  - i. PM = 14.0 lb/mile vehicles traveled

ii.  $PM_{10} = 7.6$  lb/mile vehicles traveled

iii. Emission formula for the affected fugitive PM/ $PM_{10}$  sources:

(Emissions, ton) = [(The Appropriate Emission Factor, lb/ VMT) x (Vehicle Mile Traveled,

## 8.0 GENERAL PERMIT CONDITIONS

### 8.1 Permit Shield

Pursuant to Section 39.5(7)(j) of the Act, the Permittee has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the Illinois EPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit.

This permit shield does not extend to applicable requirements which are promulgated after \_\_\_\_\_ (the date of issuance of the draft permit) unless this permit has been modified to reflect such new requirements.

### 8.2 Applicability of Title IV Requirements (Acid Deposition Control)

This source is not an affected source under Title IV of the CAA and is not subject to requirements pursuant to Title IV of the CAA.

### 8.3 Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement [Section 39.5(7)(o)(vii) of the Act].

### 8.4 Operational Flexibility/Anticipated Operating Scenarios

#### 8.4.1 Changes Specifically Addressed by Permit

Physical or operational changes specifically addressed by the Conditions of this permit that have been identified as not requiring Illinois EPA notification may be implemented without prior notice to the Illinois EPA.

#### 8.4.2 Changes Requiring Prior Notification

The Permittee is authorized to make physical or operational changes that contravene express permit terms without applying for or obtaining an amendment to this permit, provided that [Section 39.5(12)(a)(i) of the Act]:

- a. The changes do not violate applicable requirements;
- b. The changes do not contravene federally enforceable permit terms or conditions that are monitoring (including test

methods), recordkeeping, reporting, or compliance certification requirements;

- c. The changes do not constitute a modification under Title I of the CAA;
- d. Emissions will not exceed the emissions allowed under this permit following implementation of the physical or operational change; and
- e. The Permittee provides written notice to the Illinois EPA, Division of Air Pollution Control, Permit Section, at least 7 days before commencement of the change. This notice shall:
  - i. Describe the physical or operational change;
  - ii. Identify the schedule for implementing the physical or operational change;
  - iii. Provide a statement of whether or not any New Source Performance Standard (NSPS) is applicable to the physical or operational change and the reason why the NSPS does or does not apply;
  - iv. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and
  - v. Provide a certification that the physical or operational change will not result in emissions greater than authorized under the Conditions of this permit.

## 8.5 Testing Procedures

Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods if applicable test methods are not specified by the applicable regulations or otherwise identified in the conditions of this permit.

Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of any tests conducted as required by this permit or as the result of a request by the Illinois EPA shall be submitted as specified in Conditions 8.6.3 and 8.6.4.

## 8.6 Reporting Requirements

### 8.6.1 Monitoring Reports

Reports summarizing required monitoring as specified in the conditions of this permit shall be submitted to the Illinois EPA

every six months as follows, unless more frequent submittal of such reports is required in Sections 5 or 7 of this permit [Section 39.5(7)(f) of the Act]:

<u>Monitoring Period</u>	<u>Report Due Date</u>
January - June	July 31
July - December	January 31

All instances of deviations from permit requirements must be clearly identified in such reports. All such reports shall be certified in accordance with Condition 9.9.

#### 8.6.2 Test Notifications

Unless otherwise specified elsewhere in this permit, a written test plan for any test required by this permit shall be submitted to the Illinois EPA for review at least 60 days prior to the testing pursuant to Section 39.5(7)(a) of the Act. The notification shall include at a minimum:

- a. The name and identification of the affected unit(s);
- b. The person(s) who will be performing sampling and analysis and their experience with similar tests;
- c. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the source and any control equipment will be determined;
- d. The specific determinations of emissions and operation that are intended to be made, including sampling and monitoring locations;
- e. The test method(s) that will be used, with the specific analysis method, if the method can be used with different analysis methods;
- f. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification; and
- g. Any proposed use of an alternative test method, with detailed justification.

#### 8.6.3 Test Reports

Unless otherwise specified elsewhere in this permit, the results of any test required by this permit shall be submitted to the Illinois EPA within 60 days of completion of the testing. The test report shall include at a minimum [Section 39.5(7)(e)(i) of the Act]:

- a. The name and identification of the affected unit(s);
- b. The date and time of the sampling or measurements;
- c. The date any analyses were performed;
- d. The name of the company that performed the tests and/or analyses;
- e. The test and analytical methodologies used;
- f. The results of the tests including raw data, and/or analyses including sample calculations;
- g. The operating conditions at the time of the sampling or measurements; and
- h. The name of any relevant observers present including the testing company's representatives, any Illinois EPA or USEPA representatives, and the representatives of the source.

#### 8.6.4 Reporting Addresses

- a. Unless otherwise specified in the particular provision of this permit or in the written instructions distributed by the Illinois EPA for particular reports, reports and notifications shall be sent to the Illinois EPA - Air Compliance Unit with a copy sent to the Illinois EPA - Air Regional Field Office.
- b. As of the date of issuance of this permit, the addresses of the offices that should generally be utilized for the submittal of reports and notifications are as follows:
  - i. Illinois EPA - Air Compliance Unit
 

Illinois Environmental Protection Agency  
Bureau of Air  
Compliance & Enforcement Section (MC 40)  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9276
  - ii. Illinois EPA - Air Quality Planning Section
 

Illinois Environmental Protection Agency  
Bureau of Air  
Air Quality Planning Section (MC 39)  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9276
  - iii. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
2009 Mall Street  
Collinsville, Illinois 62234

iv. USEPA Region 5 - Air Branch

USEPA (AR - 17J)  
Air & Radiation Division  
77 West Jackson Boulevard  
Chicago, Illinois 60604

- c. Permit applications should be addressed to the Air Permit Section. As of the date of issuance of this permit, the address of the Air Permit Section is as follows:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Permit Section (MC 11)  
1021 North Grand Avenue East  
P.O. Box 19506  
Springfield, Illinois 62794-9506

8.7 Title I Conditions

Notwithstanding the expiration date on the first page of this CAAPP permit, Title I conditions in this permit, which are identified by a T1, T1N, or T1R designation, remain in effect until such time as the Illinois EPA takes action to revise or terminate them in accordance with applicable procedures for action on Title I conditions. This is because these conditions either: (a) incorporate conditions of earlier permits that were issued by the Illinois EPA pursuant to authority that includes authority found in Title I of the CAA (T1 conditions), (b) were newly established in this CAAPP permit pursuant to authority that includes such Title I authority (T1N conditions), or (c) reflect a revision or combination of conditions established in this CAAPP permit (T1R conditions). (See also Condition 1.5.)

## 9.0 STANDARD PERMIT CONDITIONS

### 9.1 Effect of Permit

9.1.1 The issuance of this permit does not release the Permittee from compliance with State and Federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or applicable ordinances, except as specifically stated in this permit and as allowed by law and rule.

9.1.2 In particular, this permit does not alter or affect the following [Section 39.5(7)(j)(iv) of the Act]:

- a. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program consistent with Section 408(a) of the CAA; and
- d. The ability of USEPA to obtain information from a source pursuant to Section 114 (inspections, monitoring, and entry) of the CAA.

9.1.3 Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, pursuant to Section 39.5(7)(j) and (p) of the Act, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

### 9.2 General Obligations of Permittee

#### 9.2.1 Duty to Comply

The Permittee must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application [Section 39.5(7)(o)(i) of the Act].

The Permittee shall meet applicable requirements that become effective during the permit term in a timely manner unless an alternate schedule for compliance with the applicable requirement is established.

#### 9.2.2 Duty to Maintain Equipment

The Permittee shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements.

#### 9.2.3 Duty to Cease Operation

No person shall cause, threaten or allow the continued operation of any emission unit during malfunction or breakdown of the emission unit or related air pollution control equipment if such operation would cause a violation of an applicable emission standard, regulatory requirement, ambient air quality standard or permit limitation unless this permit provides for such continued operation consistent with the Act and applicable Illinois Pollution Control Board regulations [Section 39.5(6)(c) of the Act].

#### 9.2.4 Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated there under.

#### 9.2.5 Duty to Pay Fees

The Permittee must pay fees to the Illinois EPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto [Section 39.5(7)(o)(vi) of the Act]. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois, 62794-9276.

### 9.3 Obligation to Allow Illinois EPA Surveillance

Upon presentation of proper credentials and other documents as may be required by law and in accordance with constitutional limitations, the Permittee shall allow the Illinois EPA, or an authorized representative to perform the following [Sections 4 and 39.5(7)(a) and (p)(ii) of the Act]:

- a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control equipment),

practices, or operations regulated or required under this permit;

- d. Sample or monitor any substances or parameters at any location:
  - i. At reasonable times, for the purposes of assuring permit compliance or applicable requirements; or
  - ii. As otherwise authorized by the CAA, or the Act.
- e. Obtain and remove samples of any discharge or emission of pollutants authorized by this permit; and
- f. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source authorized by this permit.

#### 9.4 Obligation to Comply with Other Requirements

The issuance of this permit does not release the Permittee from applicable State and Federal laws and regulations, and applicable local ordinances addressing subjects other than air pollution control.

#### 9.5 Liability

##### 9.5.1 Title

This permit shall not be considered as in any manner affecting the title of the premises upon which the permitted source is located.

##### 9.5.2 Liability of Permittee

This permit does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the sources.

##### 9.5.3 Structural Stability

This permit does not take into consideration or attest to the structural stability of any unit or part of the source.

##### 9.5.4 Illinois EPA Liability

This permit in no manner implies or suggests that the Illinois EPA (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the source.

##### 9.5.5 Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege [Section 39.5(7)(o)(iv) of the Act].

## 9.6 Recordkeeping

### 9.6.1 Control Equipment Maintenance Records

A maintenance record shall be kept on the premises for each item of air pollution control equipment. At a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

### 9.6.2 Records of Changes in Operation

A record shall be kept describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes [Section 39.5(12)(b)(iv) of the Act].

### 9.6.3 Retention of Records

- a. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit [Section 39.5(7)(e)(ii) of the Act].
- b. Other records required by this permit including any logs, plans, procedures, or instructions required to be kept by this permit shall be retained for a period of at least 5 years from the date of entry unless a longer period is specified by a particular permit provision.

## 9.7 Annual Emissions Report

The Permittee shall submit an annual emissions report to the Illinois EPA, Air Quality Planning Section no later than May 1 of the following year, as required by 35 IAC Part 254. The regulated air pollutants (including HAP's) from the entire source and individual emission units or group of emission units have to be addressed in the Annual Emission Report and calculated as recommended in Condition 5.12.1(b).

## 9.8 Requirements for Compliance Certification

Pursuant to Section 39.5(7)(p)(v) of the Act, the Permittee shall submit annual compliance certifications. The compliance certifications shall be submitted no later than May 1 or more frequently as specified in the applicable requirements or by permit condition. The compliance certifications shall be submitted to the Air Compliance Unit, Air Regional Field Office, and USEPA Region 5 - Air Branch. The addresses for the submittal of the compliance certifications are provided in Condition 8.6.4 of this permit.

- a. The certification shall include the identification of each term or condition of this permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.
- b. All compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the Illinois EPA.
- c. All compliance reports required to be submitted shall include a certification in accordance with Condition 9.9.

#### 9.9 Certification

Any document (including reports) required to be submitted by this permit shall contain a certification by a responsible official of the Permittee that meets the requirements of Section 39.5(5) of the Act and applicable regulations [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included as Attachment 1 to this permit.

#### 9.10 Defense to Enforcement Actions

##### 9.10.1 Need to Halt or Reduce Activity Not a Defense

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 conditions of this permit [Section 39.5(7)(o)(ii) of the Act].

##### 9.10.2 Emergency Provision

- a. An emergency shall be an affirmative defense to an action brought for noncompliance with the technology-based emission limitations under this permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence [Section 39.5(7)(k) of the Act]:

- i. An emergency occurred as provided in Section 39.5(7)(k) of the Act and the Permittee can identify the cause(s) of the emergency.

Note: For this purpose, emergency means a situation arising from sudden and reasonably unforeseeable events beyond the control of the source, as further defined by Section 39.5(7)(k)(iv) of the Act.

- ii. The permitted source was at the time being properly operated;

- iii. The Permittee submitted notice of the emergency to the Illinois EPA within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
  - iv. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or regulations in this permit.
- b. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve a Permittee of any reporting obligations under existing federal or state laws or regulations [Section 39.5(7)(k)(iv) of the Act].

#### 9.11 Permanent Shutdown

This permit only covers emission units and control equipment while physically present at the indicated source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

#### 9.12 Reopening and Reissuing Permit for Cause

##### 9.12.1 Permit Actions

This permit may be modified, revoked, reopened and reissued, or terminated for cause in accordance with applicable provisions of Section 39.5 of the Act. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition [Section 39.5(7)(o)(iii) of the Act].

##### 9.12.2 Reopening and Revision

This permit must be reopened and revised if any of the following occur [Section 39.5(15)(a) of the Act]:

- a. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit.
- b. Additional requirements become applicable to an affected source for acid deposition under the acid rain program.

- c. The Illinois EPA or USEPA determines that this permit contains a material mistake or that inaccurate statement were made in establishing the emission standards or limitations, or other terms or conditions of this permit.
- d. The Illinois EPA or USEPA determines that this permit must be revised or revoked to ensure compliance with the applicable requirements.

#### 9.12.3 Inaccurate Application

The Illinois EPA has issued this permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation and reissuance under Section 39.5(15) of the Act, pursuant to Sections 39.5(5)(e) and (i) of the Act.

#### 9.12.4 Duty to Provide Information

The Permittee shall furnish to the Illinois EPA, within a reasonable time specified by the Illinois EPA any information that the Illinois EPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to the Illinois EPA copies of records required to be kept by this permit, or for information claimed to be confidential, the Permittee may furnish such records directly to USEPA along with a claim of confidentiality [Section 39.5(7)(o)(v) of the Act].

### 9.13 Severability Clause

The provisions of this permit are severable. In the event of a challenge to any portion of the permit, other portions of the permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and the rights and obligations of the Permittee shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force [Section 39.5(7)(i) of the Act].

### 9.14 Permit Expiration and Renewal

Upon the expiration of this permit, if the source is operated, it shall be deemed to be operating without a permit unless a timely and complete CAAPP application has been submitted for renewal of this permit. However, if a timely and complete application to renew this CAAPP permit has been submitted, the terms and all conditions of this CAAPP permit will remain in effect until the issuance of a renewal permit [Section 39.5(5)(1) and (o) of the Act].

Note: Pursuant to Sections 39.5(5)(h) and (n) of the Act, upon submittal of a timely and complete renewal application, the permitted source may continue to operate until final action is taken by the Illinois EPA on the renewal application, provided, however, that this protection shall cease if the applicant fails to submit any additional information necessary to evaluate or take final action on the renewal application as requested by the Illinois EPA in writing. For a renewal application to be timely, it must be submitted no later than 9 months prior to the date of permit expiration.

9.15 General Authority for the Terms and Conditions of this Permit

The authority for terms and conditions of this permit that do not include a citation for their authority is Section 39.5(7)(a) of the Act, which provides that the Illinois EPA shall include such provisions in a CAAPP permit as are necessary to accomplish the purposes of the Act and to assure compliance with all applicable requirements. Section 39.5(7)(a) of the Act is also another basis of authority for terms and conditions of this permit that do include a specific citation for their authority.

Note: This condition is included in this permit pursuant to Section 39.5(7)(n) of the Act.

**10.0 ATTACHMENTS**

Attachment 1 Example Certification by a Responsible Official

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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

Name: \_\_\_\_\_

Official Title: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Date Signed: \_\_\_\_\_

Attachment 2 Emissions of Particulate Matter from Process Emission Units

Process Emission Units for Which Construction or Modification Commenced On or After April 14, 1972

- a. New Process Emission Units for Which Construction or Modification Commenced On or After April 14, 1972 [35 IAC 212.321].
- b. No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 [35 IAC 212.321(a)].

- i. The emissions of particulate matter into the atmosphere in any one hour period from the affected coating lines shall not exceed the allowable emission rates specified in the following equation:

$$E = A (P)^B$$

Where:

P = Process weight rate

E = Allowable emission rate

- ii. For process weight rates of 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

- iii. For process weight rates in excess of 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

- c. Limits for Process Emission Units for which Construction or Modification Commenced On or After April 14, 1972 [35 IAC 212.321(c)]:

Metric		English	
P	E	P	E
Mg/hr	kg/hr	T/hr	lb/hr
0.05	0.25	0.05	0.55
0.1	0.29	0.10	0.77
0.2	0.42	0.2	1.10
0.3	0.64	0.30	1.35
0.4	0.74	0.40	1.58
0.5	0.84	0.50	1.75
0.7	1.00	0.75	2.40
0.9	1.15	1.00	2.60
1.8	1.66	2.00	3.70
2.7	2.1	3.00	4.60
3.6	2.4	4.00	5.35
4.5	2.7	5.00	6.00
9.0	3.9	10.00	8.70
13.0	4.8	15.00	10.80
18.0	5.7	20.00	12.50
23.0	6.5	25.00	14.00
27.0	7.1	30.00	15.60
32.0	7.7	35.00	17.00
36.0	8.2	40.00	18.20
41.0	8.8	45.00	19.20
45.0	9.3	50.00	20.50
90.0	13.4	100.00	29.50
140.0	17.0	150.00	37.00
180.0	19.4	200.00	43.00
230.0	22.0	250.00	48.50
270.0	24.0	300.00	53.00
320.0	26.0	350.00	58.00
360.0	28.0	400.00	62.00
408.0	30.1	450.00	66.00
454.0	30.4	500.00	67.00

Attachment 3 Compliance Assurance Monitoring (CAM) Plan

There are no specific emission units that require a CAM plan as identified in the Monitoring Requirements of Subsection 8 for each Section 7, Unit Specific Conditions for Specific Emission Units.

Attachment 4 Guidance

The Illinois has prepared guidance for sources on the Clean Air Act Permit Program (CAAPP) that is available on the Internet site maintained by the Illinois EPA, [www.epa.state.il.us](http://www.epa.state.il.us). This guidance includes instructions on applying for a revision or renewal of the CAAPP permit.

Guidance On Revising A CAAPP Permit:

[www.epa.state.il.us/air/caapp/caapp-revising.pdf](http://www.epa.state.il.us/air/caapp/caapp-revising.pdf)

Guidance On Renewing A CAAPP Permit:

[www.epa.state.il.us/air/caapp/caapp-renewing.pdf](http://www.epa.state.il.us/air/caapp/caapp-renewing.pdf)

The application forms prepared by the Illinois EPA for the CAAPP are also available from the Illinois EPA's Internet site:

[www.epa.state.il.us/air/caapp/index.html](http://www.epa.state.il.us/air/caapp/index.html)

These CAAPP application forms should also be used by a CAAPP source when it applies for a construction permit. For this purpose, the appropriate CAAPP application forms and other supporting information, should be accompanied by a completed Application For A Construction Permit form (199-CAAPP) and Fee Determination for Construction Permit Application form (197-FEE):

[www.epa.state.il.us/air/caapp/199-caapp.pdf](http://www.epa.state.il.us/air/caapp/199-caapp.pdf)

[www.epa.state.il.us/air/permits/197-fee.pdf](http://www.epa.state.il.us/air/permits/197-fee.pdf)

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