

DRAFT/PROPOSED CAAPP PERMIT  
*July 25, 2014*

Attention:

Nucor Steel Kankakee, Inc.  
Attn: Johnny Jacobs  
One Nucor Way  
Bourbonnais, Illinois 60914-4127

State of Illinois

CLEAN AIR ACT PERMIT  
PROGRAM (CAAPP) PERMIT

Source:

Nucor Steel Kankakee, Inc.  
One Nucor Way  
Bourbonnais, Illinois 60914-4127

I.D. No.: 091801AAA  
Permit No.: 96030147

Permitting Authority:

Illinois Environmental Protection Agency  
Bureau of Air, Permit Section  
217/785-1705

**CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT**

Type of Application: Renewal  
Purpose of Application: Renew Existing CAAPP Permit for 5 Years

ID No.: 091801AAA  
Permit No.: 96030147  
Statement of Basis No.: 96030147-2014/06

Date Application Received: August 14, 2013  
Date Issued: TBD

Expiration Date: TBD  
Renewal Submittal Date: 9 Months Prior to TBD

Source Name: Nucor Steel Kankakee, Inc.  
Address: One Nucor Way  
City: Bourbonnais  
County: Kankakee  
ZIP Code: 60914-4217

This permit is hereby granted to the above-designated source authorizing operation in accordance with this CAAPP permit, pursuant to the above referenced application. This source is subject to the conditions contained herein. For further information on the source see Section 1 and for further discussion on the effectiveness of this permit see Condition 2.3(g).

If you have any questions concerning this permit, please contact Anatoly Belogorsky at 217/785-1705.

Raymond E. Pilapil  
Acting Manager, Permit Section  
Division of Air Pollution Control

REP:MTR:AB:psj

cc: IEPA, Permit Section  
IEPA, FOS, Region 1  
Lotus Notes Database

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**Section 1 - Source Information**

**1. Addresses**

**Source**

Nucor Steel Kankakee, Inc.  
 One Nucor Way  
 Bourbonnais, Illinois 60914-4217

**Owner**

Nucor Steel Kankakee, Inc.  
 One Nucor Way  
 Bourbonnais, Illinois 60914-4217

**Operator**

Nucor Steel Kankakee, Inc.  
 One Nucor Way  
 Bourbonnais, Illinois 60914-4217

**Permittee**

The Operator of the source as identified in this table.

**2. Contacts**

**Certified Officials**

The source shall submit an Administrative Permit Amendment for any change in the Certified Officials, pursuant to Section 39.5(13) of the Act.

	<i>Name</i>	<i>Title</i>
<i>Responsible Official</i>	Johnny Jacobs	General Manager
<i>Delegated Authority</i>	No other individuals have been authorized by the IEPA.	N/A

**Other Contacts**

	<i>Name</i>	<i>Phone No.</i>	<i>Email</i>
<i>Source Contact</i>	Aundrea Lollar	815/939-5525	Aundrea.Lollar@nucor.com
<i>Technical Contact</i>	Aundrea Lollar	815/939-5525	Aundrea.Lollar@nucor.com
<i>Correspondence</i>	Aundrea Lollar	815/939-5525	Aundrea.Lollar@nucor.com
<i>Billing</i>	Aundrea Lollar	815/939-5525	Aundrea.Lollar@nucor.com

**3. Single Source**

The source identified in Condition 1.1 above shall be defined to include all the following additional source(s):

<i>I.D. No.</i>	<i>Permit No.</i>	<i>Single Source Name and Address</i>
N/A	N/A	N/A

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## Section 2 - General Permit Requirements

### 1. Prohibitions

- a. It shall be unlawful for any person to violate any terms or conditions of this permit issued under Section 39.5 of the Act, to operate the CAAPP source except in compliance with this permit issued by the IEPA under Section 39.5 of the Act or to violate any other applicable requirements. All terms and conditions of this permit issued under Section 39.5 of the Act are enforceable by USEPA and citizens under the Clean Air Act, except those, if any, that are specifically designated as not being federally enforceable in this permit pursuant to Section 39.5(7)(m) of the Act. [Section 39.5(6)(a) of the Act]
- b. After the applicable CAAPP permit or renewal application submittal date, as specified in Section 39.5(5) of the Act, the source shall not operate this CAAPP source without a CAAPP permit unless the complete CAAPP permit or renewal application for such source has been timely submitted to the IEPA. [Section 39.5(6)(b) of the Act]
- c. No Owner or Operator of the CAAPP source shall cause or threaten or allow the continued operation of an emission source during malfunction or breakdown of the emission source or related air pollution control equipment if such operation would cause a violation of the standards or limitations applicable to the source, unless this CAAPP permit granted to the source provides for such operation consistent with the Act and applicable Illinois Pollution Control Board regulations. [Section 39.5(6)(c) of the Act]
- d. Pursuant to Section 39.5(7)(g) of the Act, emissions from the source are not allowed to exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder, consistent with Section 39.5(17) of the Act and applicable requirements, if any.

### 2. Emergency Provisions

Pursuant to Section 39.5(7)(k) of the Act, the Owner or Operator of the CAAPP source may provide an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations under this CAAPP permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:

- a.
  - i. An emergency occurred and the source can identify the cause(s) of the emergency.
  - ii. The source was at the time being properly operated.
  - iii. The source submitted notice of the emergency to the IEPA within 2 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.
  - iv. During the period of the emergency the source took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or requirements in this permit.
- b. For purposes of Section 39.5(7)(k) of the Act, "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, such as an act of God, that requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operation error.
- c. In any enforcement proceeding, the source seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or

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upset provision contained in any applicable requirement. This provision does not relieve the source of any reporting obligations under existing federal or state laws or regulations.

**3. General Provisions**

**a. Duty to Comply**

The source 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]

**b. Need to Halt or Reduce Activity is not a Defense**

It shall not be a defense for the source 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]

**c. Duty to Maintain Equipment**

The source 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. [Section 39.5(7)(a) of the Act]

**d. 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. [Section 39.5(7)(a) of the Act]

**e. Duty to Pay Fees**

- i. The source must pay fees to the IEPA 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]
- ii. The IEPA shall assess annual fees based on the allowable emissions of all regulated air pollutants, except for those regulated air pollutants excluded in Section 39.5(18)(f) of the Act and insignificant activities in Section 6, at the source during the term of this permit. The amount of such fee shall be based on the information supplied by the applicant in its complete CAAPP permit application. [Section 39.5(18)(a)(ii)(A) of the Act]
- iii. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois EPA, P.O. Box 19276, Springfield, IL, 62794-9276. Include on the check: ID #, Permit #, and "CAAPP Operating Permit Fees". [Section 39.5(18)(e) of the Act]

**f. Obligation to Allow IEPA Surveillance**

Pursuant to Sections 4(a), 39.5(7)(a), and 39.5(7)(p)(ii) of the Act, inspection and entry requirements that necessitate that, upon presentation of credentials and other documents as may be required by law and in accordance with constitutional limitations, the source shall allow the IEPA, or an authorized representative to perform the following:

- i. Enter upon the source's premises where the emission unit(s) are located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

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- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
- iv. Sample or monitor any substances or parameters at any location at reasonable times:
  - A. As authorized by the Clean Air Act or the Act, at reasonable times, for the purposes of assuring compliance with this CAAPP permit or applicable requirements; or
  - B. As otherwise authorized by the Act.
- v. 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.

**g. Effect of Permit**

- i. Pursuant to Section 39.5(7)(j)(iv) of the Act, nothing in this CAAPP permit shall alter or affect the following:
  - A. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section.
  - B. The liability of the Owner or Operator of the 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 Clean Air Act.
  - D. The ability of USEPA to obtain information from the source pursuant to Section 114 (inspections, monitoring, and entry) of the Clean Air Act.
- ii. Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, pursuant to Sections 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. [35 IAC 201.122 and Section 39.5(7)(a) of the Act]

**h. Severability Clause**

The provisions of this permit are severable. In the event of a challenge to any portion of this permit, other portions of this 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 source 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]

**4. Testing**

- a. 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

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any tests conducted as required by this permit or as the result of a request by the IEPA shall be submitted as specified in Condition 7.1 of this permit. [35 IAC Part 201 Subpart J and Section 39.5(7)(a) of the Act]

- b. Pursuant to Section 4(b) of the Act and 35 IAC 201.282, 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:
  - i. **Testing by Owner or Operator:** The IEPA 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 IEPA, at such reasonable times as may be specified by the IEPA 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 IEPA shall have the right to observe all aspects of such tests.
  - ii. **Testing by the IEPA:** The IEPA shall have the right to conduct such tests at any time at its own expense. Upon request of the IEPA, the Owner or Operator of the emission source or air pollution control equipment shall provide, without charge to the IEPA, 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.

**5. Recordkeeping**

**a. Control Equipment Maintenance Records**

Pursuant to Section 39.5(7)(b) of the Act, 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 maintenance was performed and the nature of preventative maintenance activities.

**b. Retention of Records**

- i. 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]
- ii. Pursuant to Section 39.5(7)(a) of the Act, 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 different period is specified by a particular permit provision.

**c. Availability of Records**

- i. Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall retrieve and provide paper copies, or as electronic media, any records retained in an electronic format (e.g., computer) in response to an IEPA or USEPA request during the course of a source inspection.
- ii. Pursuant to Section 39.5(7)(a) of the Act, upon written request by the IEPA for copies of records or reports required to be kept by this permit, the Permittee shall promptly submit a copy of such material to the IEPA. For this purpose, material shall be submitted to the IEPA within 30 days unless additional time is provided by the IEPA or the Permittee believes that the volume and nature of

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requested material would make this overly burdensome, in which case, the Permittee shall respond within 30 days with the explanation and a schedule for submittal of the requested material. (See also Condition 2.9(d))

## 6. Certification

### a. Compliance Certification

- i. Pursuant to Section 39.5(7)(p)(v)(C) of the Act, the source shall submit annual compliance certifications by May 1 unless a different date is specified by an applicable requirement or by a particular permit condition. The annual compliance certifications shall include the following:
  - A. The identification of each term or condition of this permit that is the basis of the certification.
  - B. The compliance status.
  - C. Whether compliance was continuous or intermittent.
  - D. 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.
- ii. Pursuant to Section 39.5(7)(p)(v)(D) of the Act, all compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the IEPA Compliance Section. Addresses are included in Attachment 3.
- iii. Pursuant to Section 39.5(7)(p)(i) of the Act, all compliance reports required to be submitted shall include a certification in accordance with Condition 2.6(b).

### b. Certification by a Responsible Official

Any document (including reports) required to be submitted by this permit shall contain a certification by the responsible official of the source 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 in Attachment 4 of this permit.

## 7. Permit Shield

- a. Pursuant to Section 39.5(7)(j) of the Act, except as provided in Condition 2.7(b) below, the source 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 IEPA, 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 **Error! Bookmark not defined.** (date USEPA notice started), unless this permit has been modified to reflect such new requirements.
- b. Pursuant to Section 39.5(7)(j) of the Act, 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.

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- c. Pursuant to Section 39.5(7)(a) of the Act, the issuance of this permit by the IEPA does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any currently pending or future legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the IEPA or the USEPA may have against the applicant including, but not limited to, any enforcement action authorized pursuant to the provision of applicable federal and state law.

**8. Title I Conditions**

Pursuant to Sections 39(a), 39(f), and 39.5(7)(a) of the Act, as generally identified below, this CAAPP permit may contain certain conditions that relate to requirements arising from the construction or modification of emission units at this source. These requirements derive from permitting programs authorized under Title I of the Clean Air Act (CAA) and regulations thereunder, and Title X of the Illinois Environmental Protection Act (Act) and regulations implementing the same. Such requirements, including the New Source Review programs for both major (i.e., PSD and nonattainment areas) and minor sources, are implemented by the IEPA.

- a. This permit may contain conditions that reflect requirements originally established in construction permits previously issued for this source. These conditions include requirements from preconstruction permits issued pursuant to regulations approved or promulgated by USEPA under Title I of the CAA, as well as requirements contained within construction permits issued pursuant to state law authority under Title X of the Act. Accordingly, all such conditions are incorporated into this CAAPP permit by virtue of being either an "applicable Clean Air Act requirement" or an "applicable requirement" in accordance with Section 39.5 of the Act. These conditions are identifiable herein by a designation to their origin of authority.
- b. This permit may contain conditions that reflect necessary revisions to requirements established for this source in preconstruction permits previously issued under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIR".
  - i. Revisions to original Title I permit conditions are incorporated into this permit through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
  - ii. Revised Title I permit conditions shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.
- c. This permit may contain conditions that reflect new requirements for this source that would ordinarily derive from a preconstruction permit established under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIN".
  - i. The incorporation of new Title I requirements into this CAAPP permit is authorized through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
  - ii. Any Title I conditions that are newly incorporated shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.

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## 9. Reopening and Revising Permit

### a. 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 source 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]

### b. Reopening and Revision

Pursuant to Section 39.5(15)(a) of the Act, this permit must be reopened and revised if any of the following occur:

- i. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;
- ii. Additional requirements become applicable to the source for acid deposition under the acid rain program;
- iii. The IEPA or USEPA determines that this permit contains a material mistake or that an inaccurate statement was made in establishing the emission standards or limitations, or other terms or conditions of this permit; or
- iv. The IEPA or USEPA determines that this permit must be revised or revoked to ensure compliance with the applicable requirements.

### c. Inaccurate Application

Pursuant to Sections 39.5(5)(e) and (i) of the Act, the IEPA has issued this permit based upon the information submitted by the source in the permit application referenced on page 1 of this permit. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation or reopening of this CAAPP under Section 39.5(15) of the Act.

### d. Duty to Provide Information

The source shall furnish to the IEPA, within a reasonable time specified by the IEPA any information that the IEPA 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 source shall also furnish to the IEPA copies of records required to be kept by this permit. [Section 39.5(7)(o)(v) of the Act]

## 10. 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]

## 11. Permit Renewal

- a. 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 the most recent issued CAAPP permit will remain in effect until the issuance of a renewal permit. [Sections 39.5(5)(1) and (o) of the Act]

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- b. For purposes of permit renewal, a timely application is one that is submitted no less than 9 months prior to the date of permit expiration. [Section 39.5(5)(n) of the Act]

**12. Permanent Shutdown**

Pursuant to Section 39.5(7)(a) of the Act, this permit only covers emission units and control equipment while physically present at the 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.

**13. Startup, Shutdown, and Malfunction**

Pursuant to Section 39.5(7)(a) of the Act, in the event of an action to enforce the terms or conditions of this permit, this permit does not prohibit a Permittee from invoking any affirmative defense that is provided by the applicable law or rule.

## Section 3 - Source Requirements

### 1. Applicable Requirements

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

#### a. Fugitive Particulate Matter

- i. Pursuant to 35 IAC 212.301 and 35 IAC 212.314, 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 unless the wind speed is greater than 25 mph.
- ii. Compliance Method (Fugitive Particulate Matter)

Upon request by the IEPA, the Permittee shall conduct observations at the property line of the source for visible emissions of fugitive particulate matter from the source to address compliance with 35 IAC 212.301. For this purpose, daily observations shall be conducted for a week for particular area(s) of concern at the source, as specified in the request, observations shall begin either within one day or three days of receipt of a written request from the IEPA, depending, respectively, upon whether observations will be conducted by employees of the Permittee or a third-party observer hired by the Permittee to conduct observations on its behalf. The Permittee shall keep records for these observations, including identity of the observer, the date and time of observations, the location(s) from which observations were made, and duration of any fugitive emissions event(s).

#### b. Ozone Depleting Substances

Pursuant to 40 CFR 82.150(b), 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:

- i. Pursuant to 40 CFR 82.156, persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices.
- ii. Pursuant to 40 CFR 82.158, equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment.
- iii. Pursuant to 40 CFR 82.161, persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program.
- iv. Pursuant to 40 CFR 82 Subpart B, any person performing service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner shall comply with 40 CFR 82 Subpart B, Servicing of Motor Vehicle Air Conditioners.
- v. Pursuant to 40 CFR 82.166, all persons shall comply with the reporting and recordkeeping requirements of 40 CFR 82.166.

#### c. Asbestos Demolition and Renovation

- i. Asbestos Fees. Pursuant to Section 9.13(a) of the Act, for any site for which the Owner or Operator must file an original 10-day notice of intent to renovate or

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demolish pursuant to Condition 3.1(d)(ii) below and 40 CFR 61.145(b), the owner or operator shall pay to the IEPA with the filing of each 10-day notice a fee of \$150.

- ii. Pursuant to 40 CFR 61 Subpart M, Standard of Asbestos, prior to any demolition or renovation at this facility, the Permittee shall fulfill notification requirements of 40 CFR 61.145(b).
- iii. Pursuant to 40 CFR 61.145(c), during demolition or renovation, the Permittee shall comply with the procedures for asbestos emission control established by 40 CFR 61.145(c).

**d. Future Emission Standards**

Pursuant to Section 39.5(15)(a) of the Act, this source shall comply with any new or revised applicable future standards of 40 CFR 60, 61, 62, or 63; or 35 IAC Subtitle B after the date issued of this permit. The Permittee 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 2.6(a). This permit may also have to be revised or reopened to address such new regulations in accordance to Condition 2.9.

**2. Applicable Plans and Programs**

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

**a. Fugitive PM Operating Program**

Should this source become subject to 35 IAC 212.302, the Permittee shall prepare and operate under a Fugitive PM Operating Program consistent with 35 IAC 212.310 and submitted to the IEPA for its review. The Fugitive PM Operating Program shall be designed to significantly reduce fugitive particulate matter emissions, pursuant to 35 IAC 212.309(a). Any future Fugitive PM Operating Program made by the Permittee during the permit term is automatically incorporated by reference provided the Fugitive PM Operating Program is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the Fugitive PM Operating Program. In the event that the IEPA notifies the Permittee of a deficiency with any Fugitive PM Operating Program, the Permittee shall be required to revise and resubmit the Fugitive PM Operating Program within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7)(a) of the Act.

**b. PM<sub>10</sub> Contingency Measure Plan**

Should this source become subject to 35 IAC 212.700, then the Permittee shall prepare and operate under a PM<sub>10</sub> Contingency Measure Plan reflecting the PM<sub>10</sub> emission reductions as set forth in 35 IAC 212.701 and 212.703. The Permittee shall, within 90 days after the date this source becomes subject to 35 IAC 212.700, submit a request to modify this CAAPP permit in order to include a new, appropriate PM<sub>10</sub> Contingency Measure Plan.

**c. Episode Action Plan**

- i. Pursuant to 35 IAC 244.141, the Permittee shall have on file with the IEPA an Episode Action Plan for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The Episode Action Plan shall contain the information specified in 35 IAC 244.144.
- ii. The Permittee shall immediately implement the appropriate steps described in the Episode Action Plan should an air pollution alert or emergency be declared, as

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required by 35 IAC 244.169, or as may otherwise be required under 35 IAC 244, Appendix D.

- iii. Pursuant to 35 IAC 244.143(d), if an operational change occurs at the source which invalidates the Episode Action Plan, a revised Episode Action Plan shall be submitted to the IEPA for review within 30 days of the change and is automatically incorporated by reference provided the revision is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the revision. In the event that the IEPA notifies the Permittee of a deficiency with any revision to the Episode Action Plan, the Permittee shall be required to revise and resubmit the Episode Action Plan within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7)(a) of the Act.
- iv. The Episode Action Plan, as submitted by the Permittee on February 20, 2014, is incorporated herein by reference. The document constitutes the formal Episode Action Plan required by 35 IAC 244.142, addressing the actions that will be implemented to reduce SO<sub>2</sub>, PM<sub>10</sub>, NO<sub>2</sub>, CO and VOM emissions from various emissions units in the event of a yellow alert, red alert or emergency issued under 35 IAC 244.161 through 244.165.
- v. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep a copy of the Episode Action Plan, any amendments or revisions to the Episode Action Plan (as required by Condition 3.2(c)), and the Permittee shall also keep a record of activities completed according to the Episode Action Plan.

**d. 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 Permittee shall submit a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or submit a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan, as part of the annual compliance certification required by Condition 2.6(a). This condition is imposed in this permit pursuant to 40 CFR 68.215(a)(2)(i) and (ii).

**e. Scrap Pollution Prevention Plan**

- i. Pursuant to 40 CFR 63.10685(a)(1), for the production of steel at the Electric Arc Furnace (EAF) steelmaking facilities, the Permittee shall operate in accordance with the scrap pollution prevention plan by restricting the use of certain scrap and minimizing the amount of specified contaminants in such scrap.
- ii. The Scrap Pollution Prevention Plan, as submitted by the Permittee on June 19, 2014, is incorporated herein by reference. The document constitutes the formal Scrap Pollution Prevention Plan required by 40 CFR 63.10685(a)(1), addressing the specifications of scrap materials, procedures for verifying compliance with the specifications, procedures for taking corrective actions against vendors no comply with specifications, inspection, training and outreach materials used for implementation of this Plan.
- iii. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep a copy of the Pollution Prevention Plan, any amendments or revisions to this Plan, and the Permittee shall also keep a record of activities completed according to the Pollution Prevention Plan.

**f. Site-Specific Plan for Mercury Switches**

- i. Pursuant to 40 CFR 63.10685(b), for the production of steel at the Electric Arc Furnace (EAF) steelmaking facilities, the Permittee shall operate in accordance

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with the mercury requirements identified in 40 CFR 63.10685(b)(1) for each scrap provider, contract or shipment.

- ii. Mercury switch removal plan, as amended by the Permittee on May 29, 2014, is incorporated herein by reference. The document constitutes the formal Site-Specific Plan for Mercury Switches required by 40 CFR 63.10685(b)(1), addressing the communication with the scrap suppliers to promote the removal of mercury switches from end-of-life vehicles and all corrective actions needed to ensure that the scrap specifications are met.
- iii. Pursuant to 40 CFR 63.10685(c)(1), the Permittee shall keep the records of the number of mercury switches removed or the weight of mercury recovered from the switches and properly managed, the estimated number of vehicles processed, and an estimate of the percent of mercury switches recovered. A copy of the Pollution Prevention Plan, any amendments or revisions to this Plan, and the Permittee shall also keep a record of activities completed according to the Pollution Prevention Plan.
- iv. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep a copy of the Site-Specific Plan for Mercury Switches, any amendments or revisions to this Plan, and a record of activities completed according to the Plan.

**3. Title I Requirements**

As of the date of issuance of this permit, there are no source-wide Title I requirements that need to be included in this Condition.

**4. Synthetic Minor Limits**

As of the date of issuance of this permit, there are no source-wide synthetic minor limits that need to be included in this Condition.

**5. Reporting Requirements**

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

**a. Prompt Reporting**

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows:
  - I. Requirements in Condition 3.1(a).
  - II. Requirements in Conditions 3.2(c), 3.2(e) and 3.2(f).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
  - A. Date and time of the deviation.
  - B. Emission unit(s) and/or operation involved.
  - C. The duration of the event.

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- D. Probable cause of the deviation.
- E. Corrective actions or preventative measures taken.
- iv. All deviation reports required in this Permit shall be identified, summarized, and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).

**b. Semiannual Reporting**

- i. Pursuant to Section 39.5(7)(f)(i) of the Act, the Permittee shall submit Semiannual Monitoring Reports to the IEPA, Air Compliance Section, summarizing required monitoring as part of the Compliance Methods in this Permit submitted every six months as follows, unless more frequent reporting is required in other parts of this permit.

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

- ii. The Semiannual Monitoring Report must be certified by a Responsible Official consistent with Condition 2.6(b).

**c. Annual Emissions Reporting**

Pursuant to 35 IAC Part 254, the Source shall submit an Annual Emission Report to the Air Quality Planning Section, due by May 1 of the year following the calendar year in which the emissions took place. All records and calculations upon which the verified and reported data are based must be retained by the source.

**d. Federal Reporting**

- i. Pursuant to 40 CFR 63.10685(c)(1)(ii), the Permittee shall submit semiannual reports of the number of mercury switches removed or the weight of mercury recovered from the switches and properly managed, the estimated number of vehicles processed, an estimate of the percent of mercury switches recovered, and a certification that the recovered mercury switches were recycled at RCRA-permitted facilities. The semiannual reports must include a certification that the Permittee has conducted inspections or taken other means of corroboration as required under 40 CFR 63.10685(b)(1)(ii)(C). The Permittee may include this information in the semiannual compliance reports required below and Condition 3.5(b) from above.
- ii. Pursuant to 40 CFR 63.10685(c)(3), the Permittee must submit semiannual compliance reports to the Illinois EPA, Air Compliance Section, for the control of contaminants from scrap according to the requirements in 40 CFR 63.10(e). The report must clearly identify any deviation from the requirements in 40 CFR 63.10685 (a) and (b) and the corrective action taken. The Permittee shall identify which compliance option in 40 CFR 63.10685(b) applies to each scrap provider, contract, or shipment.

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## Section 4 - Emission Unit Requirements

### 4.1 Electric Arc Furnace (EAF)

#### 1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
EAF/Stirring Station (E1)	PM, SO <sub>2</sub> , VOM, CO, NO <sub>x</sub>	1989	None	Direct Shell Evacuation System, Baghouses EP1 and/or EP16	Pressure Drop

#### 2. Applicable Requirements

For the emission units in Condition 4.1(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

##### a. i. Opacity Requirements

- A. Pursuant to 40 CFR 60.272a(a)(2), no owner or operator shall cause to be discharged into the atmosphere from an electric arc furnace and associated control devices any gases exhibiting 3 percent opacity or greater.
- B. Pursuant to 40 CFR 60.272a(a)(3), no owner or operator shall cause to be discharged into the atmosphere from a shop and, due solely to operations of an electric arc furnace, any gases exhibiting 6 percent opacity or greater.
- C. Pursuant to 40 CFR 63.10686(b)(2), no owner or operator shall cause to be discharged into the atmosphere from a melt shop and, due solely to operations of an electric arc furnace, any gases exhibiting 6 percent opacity or greater.
- D. 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 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

##### ii. Compliance Method (Opacity Requirements)

###### Monitoring

- A. Pursuant to 40 CFR 60.273a(c), visible emissions observations from the control device shall be performed by a certified observer and conducted at least once per day for at least three 6-minute periods when the EAF is operating in the melting and refining period. All visible emissions observations shall be conducted in accordance with Method 9. If visible emissions occur from more than one point, the opacity shall be recorded for any points where visible emissions are observed.
- B. Pursuant to 40 CFR 60.273a(d), melt shop opacity observations shall be conducted at least once per day when the furnace is operating in the meltdown and refining period. Shop opacity shall be determined as the arithmetic average of 24 or more consecutive 15-second opacity observations of emissions from the shop taken in accordance with Method 9. Shop opacity shall be recorded for any point(s) where visible emissions are observed in proximity to the EAF.

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Recordkeeping

- C. Pursuant to 40 CFR 60.276a(g), the Permittee shall maintain records of all shop opacity observations made in accordance with 40 CFR 60.273a(d).
- D. Pursuant to 40 CFR 60.274a(h)(1) through (3), during any performance test required under 40 CFR 60.8, and for any report thereof required by 40 CFR 276(a)(f), or to determine compliance with 40 CFR 60.272(a)(3), the owner or operator shall monitor the following information for all heats covered by the test:
  - I. Charge weights and materials, and tap weights and materials;
  - II. Heat times, including start and stop times, and a log of process operation, including periods of no operation during testing and the pressure inside an EAF when direct-shell evacuation control system is used;
  - III. Control device operation log; and
  - IV. Method 9 data.

**b. i. Particulate Matter Requirements (PM)**

- A. Pursuant to 40 CFR 60.272a(a)(1), no owner or operator shall discharge into the atmosphere from a control device emissions of particulate matter (total filterable and condensable) in excess of 12 mg/dscm (0.0052 gr/dscf).
- B. Pursuant to 40 CFR 63.10686(b)(1), no owner or operator shall discharge into the atmosphere from a control device emissions of particulate matter in excess of 12 mg/dscm (0.0052 gr/dscf).
- C. Pursuant to Construction Permits 07120005 and 04060012, filterable PM emissions from the supplementary Baghouse EP16 shall not exceed 0.0018 gr/dscf [T1].
- D. Pursuant to 35 IAC 212.448, total particulate matter emissions from the EAF including melting and refining, charging, tapping, slagging, electrode port leakage and ladle lancing shall not exceed the allowable emission rate specified by 35 IAC 212.321.
- E. Pursuant to Construction Permit 07120005, PM emissions from the EAF shall not exceed the following limits: [T1]

Pollutant	Limit		
	Lbs/Hour	Lbs/Ton	Tons/Year
PM	22.78	0.163	89.5

**ii. Compliance Method (PM Requirements)**

Monitoring

- A. Pursuant to Construction Permit 07120005, compliance with the annual limitation shall be determined from a running total of 12 months of data. [T1]
- B. Pursuant to Construction Permit 07120005, compliance with hourly limitation shall be determined based on a weekly average. [T1]

- C. Pursuant to Construction Permit 07120005, compliance all PM emission limits shall be determined based on the following: 1) operating information for the EAF at its control systems; and 2) appropriate emission factors, that reflect the actual operating conditions of the EAF and its control systems, and are derived in order of preference from source-specific testing, source-specific evaluation, published USEPA factors, and other published emission factors. [T1]
- D. Pursuant to 40 CFR 60.274a(d), the Permittee shall perform monthly operational inspections of the equipment that is important to the performance of the total capture system (i.e., pressure sensors, dampers, and damper switches). This inspection shall include observations of the physical appearance of the equipment (e.g., presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). Any deficiencies shall be noted and proper maintenance performed.
- E. Pursuant to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, the EAF is subject to 40 CFR Part 64 for PM emissions. The Permittee shall comply with the monitoring requirements of the CAM Plan described in Section 7.4 and Table 7.4.1 of this permit. At all times, the Permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment, pursuant to 40 CFR 64.7(a) and (b).

Testing

- F. Pursuant to Section 39.5(7)(a) and (d) of the Act, within 90 days after issuance of this permit, the Permittee shall evaluate the most recent stack testing data and establish the margin of compliance for each tested pollutant. Based on the established margin of compliance, a schedule of subsequent test(s) shall be developed by the Permittee and presented to the Illinois EPA Compliance Section and Field Regional Office within 60 days of the most recent test evaluation. The scheduled subsequent test(s) shall be conducted with the following frequencies based in accordance with such test evaluation:
  - I. Margin (average of three runs) is less than 50%: the Permittee shall perform a stack test within next 36 months of such evaluation; and
  - II. Margin (average of three runs) is 50% or more: the Permittee shall perform a stack test within next 60 months of such evaluation.
- G. Pursuant to Section 39.5(7)(a) and (d) of the Act, for verifying compliance with PM emission limits, the subsequent test(s) shall be conducted by using Methods 5 or 5D.

Recordkeeping

- H. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records for verifying PM emissions:
  - I. Records of monthly operational inspections of the components of a capture system, with the dates, time and names of the individuals performed these inspections, any deficiencies discovered and proper maintenance performed.
  - II. Most recent results of PM stack tests performed and the schedule of subsequent tests.

- III. Annual evaluations of margin of compliance derived from the most recently conducted PM stack tests.
- IV. Hourly and annual PM emissions (ton/hr and ton/yr) and emission factors derived from a test(s).

**c. i. Sulfur Dioxide Requirements (SO<sub>2</sub>)**

- A. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2,000 ppm.
- B. Pursuant to construction permit 07120005, the Permittee shall not exceed the following limits: [T1]

Pollutant	Limit		
	Lbs/Hour	Lbs/Ton*	Tons/Year
SO <sub>2</sub>	70.00	0.50	275.8

\* This limit represents BACT requirement established in the construction permit.

**ii. Compliance Method (SO<sub>2</sub> Requirements)**

Monitoring

- A. Pursuant to Construction Permit 07120005, compliance with the annual limitation shall be determined from a running total of 12 months of data. [T1]
- B. Pursuant to Construction Permit 07120005, compliance with hourly limitation shall be determined based on a weekly average. [T1]
- C. Pursuant to Construction Permit 07120005, compliance all SO<sub>2</sub> emission limits shall be determined based on the following: 1) operating information for the EAF at its control systems; and 2) appropriate emission factors, that reflect the actual operating conditions of the EAF and its control systems, and are derived in order of preference from source-specific testing, source-specific evaluation, published USEPA factors, and other published emission factors. [T1]

Testing

- D. Pursuant to Section 39.5(7)(a) and (d) of the Act, within 90 days after issuance of this permit, the Permittee shall evaluate the most recent stack testing data and establish the margin of compliance for each tested pollutant. Based on the established margin of compliance, a schedule of subsequent test(s) shall be developed by the Permittee and presented to the Illinois EPA Compliance Section and Field Regional Office within 60 days of the most recent test evaluation. The scheduled subsequent test(s) shall be conducted with the following frequencies based in accordance with such test evaluation:
  - I. Margin (average of three runs) is less than 50%: the Permittee shall perform a stack test within next 36 months of such evaluation; and
  - II. Margin (average of three runs) is 50% or more: the Permittee shall perform a stack test within next 60 months of such evaluation.

- E. Pursuant to Section 39.5(7)(a) and (d) of the Act, for verifying compliance with SO<sub>2</sub> emission limits, the subsequent test(s) shall be conducted by using Method 6.

Recordkeeping

- F. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records for verifying SO<sub>2</sub> emissions:
- I. Most recent results of SO<sub>2</sub> stack tests performed and the schedule of subsequent tests.
  - II. SO<sub>2</sub> emission factors (lb/ton of steel produced) derived from the most recently conducted stack tests.
  - III. Margin of compliance derived from the most recently conducted SO<sub>2</sub> stack tests.
  - IV. Hourly and annual SO<sub>2</sub> emissions (ton/hr and ton/yr) and emission factors derived from a test(s).

**d. i. Volatile Organic Material Requirements (VOM)**

- A. Pursuant to Construction Permit 07120005, the Permittee shall not exceed the following limits: [T1]

Pollutant	Limit		
	Lbs/Hour	Lbs/Ton*	Tons/Year
VOM	39.2	0.28	154.8

\* This limit represents BACT requirement established in the construction permit.

ii. Compliance Method (VOM Requirements)

Monitoring

- A. Pursuant to Construction Permit 07120005, compliance with the annual limitation shall be determined from a running total of 12 months of data. [T1]
- B. Pursuant to Construction Permit 07120005, compliance with hourly limitation shall be determined based on a weekly average. [T1]
- C. Pursuant to Construction Permit 07120005, compliance all VOM emission limits shall be determined based on the following: 1) operating information for the EAF at its control systems; and 2) appropriate emission factors, that reflect the actual operating conditions of the EAF and its control systems, and are derived in order of preference from source-specific testing, source-specific evaluation, published USEPA factors, and other published emission factors. [T1]

Testing

- D. Pursuant to Section 39.5(7)(a) and (d) of the Act, within 90 days after issuance of this permit, the Permittee shall evaluate the most recent stack testing data and establish the margin of compliance for each tested pollutant. Based on the established margin of compliance, a schedule of subsequent test(s) shall be developed by the Permittee and presented to the Illinois EPA Compliance Section and Field Regional Office within 60 days of the most recent test evaluation. The scheduled subsequent test(s) shall be

conducted with the following frequencies based in accordance with such test evaluation:

- I. Margin (average of three runs) is less than 50%: the Permittee shall perform a stack test within next 36 months of such evaluation; and
  - II. Margin (average of three runs) is 50% or more: the Permittee shall perform a stack test within next 60 months of such evaluation.
- E. Pursuant to Section 39.5(7)(a) and (d) of the Act, for verifying compliance with VOM emission limits, the subsequent test(s) shall be conducted by using Methods 25 25A.

Recordkeeping

- F. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records for verifying VOM emissions:
- I. Most recent results of VOM stack tests performed and the schedule of subsequent tests.
  - II. VOM emission factors (lb/ton of steel produced) derived from the most recently conducted stack tests.
  - III. Margin of compliance derived from the most recently conducted VOM stack tests.
  - IV. Hourly and annual VOM emissions (ton/hr and ton/yr) and emission factors derived from a test(s).

**e. i. Carbon Monoxide Requirements (CO)**

- A. Pursuant to Construction Permit 07120005, the Permittee shall not exceed the following limits: [T1]

Pollutant	Limit		
	Lbs/Hour	Lbs/Ton*	Tons/Year
CO	280.0	2.00	1,100.0

\* This limit represents BACT requirement established in the construction permit.

**ii. Compliance Method (CO Requirements)**

Monitoring

- A. Pursuant to Construction Permit 07120005, compliance with the annual limitation shall be determined from a running total of 12 months of data. [T1]
- B. Pursuant to Construction Permit 07120005, compliance with hourly limitation shall be determined based on a weekly average. [T1]
- C. Pursuant to Construction Permit 07120005, compliance all CO emission limits shall be determined based on the following: 1) operating information for the EAF at its control systems; and 2) appropriate emission factors, that reflect the actual operating conditions of the EAF and its control systems, and are derived in order of preference from source-specific testing, source-specific evaluation, published USEPA factors, and other published emission factors. [T1]

Testing

- D. Pursuant to Section 39.5(7)(a) and (d) of the Act, within 90 days after issuance of this permit, the Permittee shall evaluate the most recent stack testing data and establish the margin of compliance for each tested pollutant. Based on the established margin of compliance, a schedule of subsequent test(s) shall be developed by the Permittee and presented to the Illinois EPA Compliance Section and Field Regional Office within 60 days of the most recent test evaluation. The scheduled subsequent test(s) shall be conducted with the following frequencies based in accordance with such test evaluation:
  - I. Margin (average of three runs) is less than 50%: the Permittee shall perform a stack test within next 36 months of such evaluation; and
  - II. Margin (average of three runs) is 50% or more: the Permittee shall perform a stack test within next 60 months of such evaluation.
- E. Pursuant to Section 39.5(7)(a) and (d) of the Act, for verifying compliance with CO emission limits, the subsequent test(s) shall be conducted by using Method 10.

Recordkeeping

- F. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records for verifying CO emissions:
  - I. Most recent results of CO stack tests performed and the schedule of subsequent tests.
  - II. CO emission factors (lb/ton of steel produced) derived from the most recently conducted stack tests.
  - III. Margin of compliance derived from the most recently conducted CO stack tests.
  - IV. Hourly and annual CO emissions (ton/hr and ton/yr) and emission factors derived from a test(s).

**f. i. Nitrogen Oxides Requirements (NO<sub>x</sub>)**

- A. Pursuant to Construction Permit 07120005, the Permittee shall not exceed the following limits: [T1]

Pollutant	Limit		
	Lbs/Hour	Lbs/Ton*	Tons/Year
NO <sub>x</sub>	37.1	0.26	45.8

\* This limit represents BACT requirement established in the construction permit.

ii. Compliance Method (NO<sub>x</sub> Requirements)

Monitoring

- A. Pursuant to Construction Permit 07120005, compliance with the annual limitation shall be determined from a running total of 12 months of data. [T1]
- B. Pursuant to Construction Permit 07120005, compliance with hourly limitation shall be determined based on a weekly average. [T1]

- C. Pursuant to Construction Permit 07120005, compliance all NO<sub>x</sub> emission limits shall be determined based on the following: 1) operating information for the EAF at its control systems; and 2) appropriate emission factors, that reflect the actual operating conditions of the EAF and its control systems, and are derived in order of preference from source-specific testing, source-specific evaluation, published USEPA factors, and other published emission factors. [T1]

Testing

- D. Pursuant to Section 39.5(7)(a) and (d) of the Act, within 90 days after issuance of this permit, the Permittee shall evaluate the most recent stack testing data and establish the margin of compliance for each tested pollutant. Based on the established margin of compliance, a schedule of subsequent test(s) shall be developed by the Permittee and presented to the Illinois EPA Compliance Section and Field Regional Office within 60 days of the most recent test evaluation. The scheduled subsequent test(s) shall be conducted with the following frequencies based in accordance with such test evaluation:
- I. Margin (average of three runs) is less than 50%: the Permittee shall perform a stack test within next 36 months of such evaluation; and
  - II. Margin (average of three runs) is 50% or more: the Permittee shall perform a stack test within next 60 months of such evaluation.
- E. Pursuant to Section 39.5(7)(a) and (d) of the Act, for verifying compliance with NO<sub>x</sub> emission limits, the subsequent test(s) shall be conducted by using Method 7.

Recordkeeping

- F. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records for verifying NO<sub>x</sub> emissions:
- I. Most recent results of NO<sub>x</sub> stack tests performed and the schedule of subsequent tests.
  - II. NO<sub>x</sub> emission factors (lb/ton of steel produced) derived from the most recently conducted stack tests.
  - III. Margin of compliance derived from the most recently conducted NO<sub>x</sub> stack tests.
  - IV. Hourly and annual NO<sub>x</sub> emissions (ton/hr and ton/yr) and emission factors derived from a test(s).

**g. i. Operational and Production Requirements**

- A. Pursuant to Construction Permit 07120005, the production of steel at the EAF shall not exceed 140 tons per hour and 1,100,000 tons/yr. [T1]

**ii. Compliance Method (Operational and Production Requirements)**

Monitoring

- A. Pursuant to Construction Permit 07120005, compliance with the hourly limit shall be determined as a weekly average. Compliance with the annual limitation shall be determined from a running total of 12 months of data. [T1]

Recordkeeping

- B. Pursuant to Section 39.5(7)(b), the Permittee shall keep monthly and annual records of EAF steel production (tons/day, tons/mo and tons/yr).

**h. i. Control Requirements**

- A. Pursuant to 40 CFR 63.10686(a), the Permittee shall operate and maintain a capture system that collects the emissions from EAF (including charging, melting, and tapping operations) and conveys the collected emissions to a control device for the removal of particulate matter.

ii. Compliance Method (Control Requirements)

Monitoring

- A. Pursuant to 40 CFR 60.274a(d), the Permittee shall perform monthly operational inspections of the equipment that is important to the performance of the total capture system (i.e., pressure sensors, dampers, and damper switches). This inspection shall include observations of the physical appearance of the equipment (e.g., presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). Any deficiencies shall be noted and proper maintenance performed.
- B. Pursuant to 40 CFR 60.274a(b), the Permittee shall check and record on a once-per-shift basis the control system fan motor amperes and damper position.
- C. Pursuant to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, the EAF is subject to 40 CFR Part 64 for PM. The Permittee shall comply with the monitoring requirements of the CAM Plan described in Section 7.4 and Table 7.4.1 of this permit. At all times, the Permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment, pursuant to 40 CFR 64.7(a) and (b).

Testing

- A. See testing requirements for individual pollutants discussed above.

Recordkeeping

- B. Pursuant to Construction Permit 07120005, the Permittee shall keep the following records related to operation of control and capture systems:
- I. The Permittee shall keep inspection, maintenance and repair log(s) or other records for the affected furnace and associated hooding, ductwork and baghouse that includes the inspection and preventative maintenance schedules and a description of inspection, maintenance activities that are performed, with date and responsible party.
- II. Records of control system fan motor amperes and damper position.
- III. Data for damper positions for the evacuation system (percent open/closed) and the amperage of the baghouse fans, once per shift.
- IV. Information for incidents of malfunction, with date, description impact on emissions, duration of event, probable cause, and corrective actions.

i. i. Work Practice Requirements

- A. Pursuant to 40 CFR 63.10685, the Permittee shall implement the requirements of the Pollution Prevention Plan for Scrap incorporated by reference into this permit in Condition 3.2(e) of this permit.
- B. Pursuant to Construction Permits 04100024 and 07120005, the Permittee shall operate in accordance with a written plan for the management of scrap to minimize, to the extent practicable, the amount of organics (oil, other organic liquids, paint, rubber, etc.) or other contaminants in the charge materials for the affected furnace that would potentially contribute to emissions of VOM or SO<sub>2</sub>. This plan shall be prepared and maintained by the Permittee and include the following elements. This plan must be kept onsite, with copies readily available to all plant personnel with duties related to acquisition, inspection or acceptance of scrap.
  - I. Procedures for scrap acquisition to restrict organic contamination in scrap delivered to and accepted by the plant, including specifications for scrap materials to be depleted (to the extent practicable) of the presence of used oil filters, plastic parts and organic liquids and to be drained of free liquids, a copy of which specification must be provided to each scrap vendor or supplier for the furnace.
  - II. Procedures for inspection and acceptance of incoming scrap shipments to the plant to ensure that materials meet the above specifications, which shall be accompanied by documentation for each inspection, with results, and records for each rejection of a shipment, with description and explanation.
    - 1. The inspection procedures must provide for inspection of a representative portion of the incoming scrap to the plant, including inspection of shipments from all suppliers and at least 10 percent of all shipments. The procedures must also identify the location(s) where inspections are to be performed for different types of shipments and provide reasonable vantage points and facilities for inspections considering worker safety. If inspections are performed at suppliers' sites, the procedures shall further identify the practices that are followed to ensure that such inspections are representative of material as delivered to the plant.
    - 2. The acceptance procedures must provide for rejection of entire or partial shipments of scrap that do not meet specifications and additional punitive consequences for vendors whose shipments repeatedly fail to meet specifications.
    - 3. Retention of the documentation for inspections of scrap shipment in accordance with the Permittee's established procedures for document retention and in no case for less than 12 months from the date of the inspection.
  - III. Upon written notification from the Illinois EPA of an observed or potential deficiency in the scrap management plan or a portion thereof, the Permittee shall submit a revised document addressing the cited deficiencies to the Illinois EPA within 45 days for its review. This submittal shall be accompanied with an explanation of the revisions to the plan that have been made and how they appropriately respond to the cited deficiencies.
- C. Good Operating Practices required by Construction Permit 07120005:

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- I. Operating Procedures for the Furnace: These procedures shall address normal furnace operation, including startup, shutdown, and maintenance practices.
  - II. Operating Procedures for Fuel Burner: These procedures shall include target levels established for the following operating parameters for the burner:
    - 1. Air-fuel mixture
  - III. Operating Procedures for Control System: These procedures shall address normal air pollution control equipment operation, including startup and shutdown, and maintenance practices. The procedures may incorporate the manufacturers' recommended instructions for operation and maintenance.
  - IV. Inspections: Visual inspections of the affected furnace and its air pollution control and monitoring equipment shall be conducted on at least a weekly basis.
  - V. Repairs: Prompt repairs shall be made upon identification of need either as a consequence of formal inspections or other observations in conformance with good air pollution control practice.
- ii. Compliance Method (Work Practice Requirements)

Monitoring

See Condition 3.2(e) of this permit for Pollution Prevention

Recordkeeping

- A. Pursuant to Construction Permit 07120005, the Permittee shall keep the following records:
  - I. Date of inspection, maintenance, and repair activities.
  - II. Description of maintenance or repair activity if not routine preventative maintenance.
  - III. Probable cause for requiring maintenance or repair if not routine or preventative.

j. i. BACT Requirements

The following represent the Best Available Control Technique (BACT) requirements established in the previously issued construction permits for electric arc furnace:

- A. Construction Permit 07120005
  - I. The supply of scrap for the furnace shall be managed with a scrap management program that is developed and maintained to minimize the level of organics and other contaminants in the scrap accepted for the furnace that contribute to sulfur dioxide (SO<sub>2</sub>) emissions from the furnace.
  - II. The furnace shall be operated with a direct-shell evacuation control system to promote oxidation of carbon monoxide (CO) with enlarged fourth hole collection duct and an elbow with drop-out box to control emissions of CO.

- III. The furnace shall be operated and maintained in accordance with good air pollution control practices to minimize emissions. These practices shall include specific practices to minimize the emissions of SO<sub>2</sub> attributable to contaminants in the scrap supply, including use of low-sulfur charge carbon for the furnace that contains no more than 1.0 percent sulfur by weight.
- IV. The furnace shall be operated and maintained to achieve CO and SO<sub>2</sub> emission rates that are no more than 2.0 and 0.50 pounds per ton of steel produced, respectively.

B. Construction Permit 04100024

- I. The furnace shall be operated and maintained in accordance with good air pollution control practices to minimize emissions. These practices shall include specific practices to minimize the emissions of VOM attributable to contaminants in the scrap supply. These practices shall also include operation of the furnace with a direct-shell evacuation control system to facilitate combustion of VOM.
- II. The furnace shall be operated and maintained to achieve VOM emission rate that are no more than 0.28 pounds per ton of steel produced.

C. Construction Permit 93010095

- I. Emissions of NO<sub>x</sub> from the affected furnace shall not exceed 0.26 pounds per ton of steel produced, respectively.
- II. Any fuel burners operated on the affected furnace shall be of the low-NO<sub>x</sub> design, such as oxygen/natural gas burners, designed and maintained to generate no more than 0.14 pound NO<sub>x</sub> per million Btu heat input from fuel.

**3. Non-Applicability Determinations**

- a. The EAF baghouse(s) is not required to be equipped with a bag leak detection system, as required by 40 CFR 60.273a(c), because the EAF is controlled by the positive-pressure baghouse(s).
- b. This permit is issued based on the EAF not being subject to 35 IAC 215.301, because its organic material emissions do not qualify as photochemically reactive material.
- c. For all regulated air pollutants other than PM, the EAF is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the EAF does not use an add-on control device to achieve compliance with an emission limitation or standard for air pollutants other than PM.

**4. Other Requirements**

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

**5. Reporting Requirements**

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

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- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
  - I. Requirements in Conditions 4.1(2)(a), 4.1(2)(b), 4.1(2)(c), 4.1(2)(d), 4.1(2)(e), 4.1(2)(f), 4.1(2)(g), 4.1(2)(h), 4.1(2)(i) and 4.1(2)(j).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
  - A. Date and time of the deviation.
  - B. Emission unit(s) and/or operation involved.
  - C. The duration of the event.
  - D. Probable cause of the deviation.
  - E. Corrective actions or preventative measures taken.

**b. Federal Reporting**

- i. Pursuant to 40 CFR 60.276a(b), the Permittee shall submit a written report of exceedances of the control device opacity to the Illinois EPA semi-annually. For the purposes of these reports, exceedances are defined as all 6-minute periods during which the average opacity is 3 percent or greater.
- ii. Pursuant to 40 CFR 60.276a(g), the Permittee shall submit a written semi-annual report of exceedances of the shop opacity limit specified in 40 CFR 60.272a(a)(3).
- iii. Pursuant to 40 CFR 63.6(e), if an action taken by the owner or operator during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the source's startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard, then the owner or operator must record the actions taken for that event and must report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with 40 CFR 63.10(d)(5) (unless the owner or operator makes alternative reporting arrangements, in advance, with the Illinois EPA or USEPA).

**4.2 Continuous Caster**

**1. Emission Units and Operations**

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
4 Strand Continuous Caster (E2)	PM	1986	N/A	Baghouses EP1 and/or EP16	Pressure Drop

**2. Applicable Requirements**

For the emission units in Condition 4.2(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7) (a), 39.5(7) (b), and 39.5(7) (d) of the Act.

**a. i. Opacity Requirements**

A. 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 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Compliance Method (Opacity Requirements)

See Condition 4.1(2) (a) (ii)

**b. i. Particulate Matter Requirements (PM)**

A. Pursuant to 35 IAC 212.321(a), 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 for which, 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, which, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See Condition 7.2).

ii. Compliance Method (PM Requirements)

See Condition 4.1(2) (b) (ii)

**3. Non-Applicability Determinations**

The continuous caster is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources for PM, because these emission units do not have pre-control emissions exceeding major source threshold for any pollutants.

**4. Other Requirements**

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

**5. Reporting Requirements**

The Permittee shall submit the following information pursuant to Section 39.5(7) (f) of the Act. Addresses are included in Attachment 3.

**a. Prompt Reporting**

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**Section 4 - Emission Unit Requirements**  
**4.2 - Continuous Caster**

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
  - I. Requirements in Conditions 4.2(2)(a) and 4.2(2)(b).
  - B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
  - A. Date and time of the deviation.
  - B. Emission unit(s) and/or operation involved.
  - C. The duration of the event.
  - D. Probable cause of the deviation.
  - E. Corrective actions or preventative measures taken.

**4.3 EAF Dust Handling**

**1. Emission Units and Operations**

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
EAF Dust Handling System (enclosed dust loading building):					
Silo	PM	1989	None	Bin Vents	None
Rail Car Loading	PM	1989	None	Baghouses #1 and #2	Pressure Drop
Pneumatic and Screw Conveyors	PM	1989	None	Baghouses #1 and #2	Pressure Drop

**2. Applicable Requirements**

For the emission units in Condition 4.3(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7) (a), 39.5(7) (b), and 39.5(7) (d) of the Act.

**a. i. Opacity Requirements**

- A. 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 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.
- B. Pursuant to 40 CFR 60.272a(b), the Permittee shall cause to be discharged into the atmosphere from the dust-handling system any gases with an opacity 10 percent or greater.

**ii. Compliance Method (Opacity Requirements)**

Monitoring

- A. Pursuant to Section 39.5(7) (a) of the Act, the Permittee shall perform monthly inspections of all filters and devices important for dust handling system to ensure its proper operations.
- B. Pursuant to Section 39.5(7) (a) and (d) of the Act, opacity observations from the dust handling system shall be performed by a certified observer and conducted at least once per month when the dust handling system is operating during loading and unloading. Dust handling system opacity shall be determined in accordance with procedures established by Method 9.

Recordkeeping

- A. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records of such inspections which include the date of the inspections and its results.
- B. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records of all dust handling system opacity observations performed by the source.

**b. i. Particulate Matter Requirements (PM)**

- A. Pursuant to 35 IAC 212.321(a), 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 for which, either alone or in combination with the

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emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, which, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See Condition 7.2).

- B. Pursuant to Construction Permit 04060012, the Permittee shall not exceed the following limits from the dust handling system: [T1]

Pollutant	(Ton/Yr)
PM	3.0

ii. Compliance Method (PM Requirements)

Monitoring

- A. 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). [T1]
- B. Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall perform monthly inspections of individual emission points of EAF Dust Handling System and baghouses to ensure that proper operational conditions are used for minimizing release of PM emissions.

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of PM emissions from the dust handling system based on the material throughput, efficiency of control device(s), emission tests results, standard emission factors, etc., with supporting documentation and calculations.
- D. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of inspections which include the date of the inspections and its results.

**3. Non-Applicability Determinations**

- a. EAF dust handling system is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources because it does not have potential pre-control device emissions of the applicable regulated air pollutants that equals or exceeds major source threshold levels.

**4. Other Requirements**

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

**5. Reporting Requirements**

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

**a. Prompt Reporting**

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:

I. Requirements in Conditions 4.3(2)(a) and 4.3(2)(b)

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- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
  - A. Date and time of the deviation.
  - B. Emission unit(s) and/or operation involved.
  - C. The duration of the event.
  - D. Probable cause of the deviation.
  - E. Corrective actions or preventative measures taken.

**4.4 Reheat Furnace**

**1. Emission Units and Operations**

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Reheat Furnace (natural gas-fired, w/low NO <sub>x</sub> burners and 160.0 mmBtu/hr heat input)	PM, CO, NO <sub>x</sub> , VOM, SO <sub>2</sub>	2004	None	None	None

**2. Applicable Requirements**

For the emission units in Condition 4.4(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

**a. i. Opacity Requirements**

A. 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 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Compliance Method (Opacity Requirements)

Monitoring

A. Pursuant to Section 39.5(7)(a) and (d) of the Act, annual opacity observations shall be performed by a qualified observer in accordance with Method 9 for a reheat furnace stack or reheat furnace building openings while the furnace is operating. The duration of opacity observations shall be at least 30 minutes unless no visible emissions are observed during the first 12 minutes of observations.

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 4 hours of the observation.

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all Method 9 opacity measurements made in accordance with Condition 4.4.2(a)(ii)(A) above.

**b. i. Particulate Matter Requirements (PM)**

A. Pursuant to 35 IAC 212.321(a), 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 for which, 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, which, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See Condition 7.2).

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B. Pursuant to Construction Permit 04060017, the Permittee shall not exceed the following limits from the reheat furnace: [T1]

Pollutant	(Tons/Mo)	(Tons/Yr)
PM	0.53	5.33

ii. Compliance Method (PM Requirements)

Monitoring

A. 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). [T1]

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records related to PM emissions:

- I. Monthly and annual emissions of PM (tons/month and tons/year), based on the material throughput, emission tests results, standard emission factors, etc., with supporting calculations.
- II. Records of the allowable PM emissions outlined by 35 IAC 212.321(c) based on the actual process weight rates of metal passing reheat furnace.

**c. i. Carbon Monoxide Requirements (CO)**

A. Pursuant to Construction Permit 04060017, the Permittee shall not exceed the following limits from the reheat furnace: [T1]

Pollutant	(Tons/Mo)	(Tons/Yr)
CO	5.89	58.9

ii. Compliance Method (CO Requirements)

Monitoring

A. 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). [T1]

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records related to CO emissions:

- I. Monthly and annual emissions of CO (tons/month and tons/year), based on the material throughput, emission tests results, standard emission factors, etc., with supporting calculations.

**d. i. Nitrogen Oxides Requirements (NO<sub>x</sub>)**

A. Pursuant to Construction Permit 04060017, the Permittee shall not exceed the following limits from the reheat furnace: [T1]

Pollutant	(Tons/Mo)	(Tons/Yr)
NO <sub>x</sub>	4.9	49.1

ii. Compliance Method (CO Requirements)

Monitoring

A. 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). [T1]

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records related to NO<sub>x</sub> emissions:

I. Monthly and annual emissions of NO<sub>x</sub> (tons/month and tons/year), based on the material throughput, emission tests results, standard emission factors, etc., with supporting calculations.

e. i. **Volatile Organic Material Requirements (VOM)**

A. Pursuant to Construction Permit 04060017, the Permittee shall not exceed the following limits from the reheat furnace: [T1]

Pollutant	(Tons/Mo)	(Tons/Yr)
VOM	0.39	3.85

ii. Compliance Method (VOM Requirements)

Monitoring

A. 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). [T1]

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records related to VOM emissions:

I. Monthly and annual emissions of VOM (tons/month and tons/year), based on the material throughput, emission tests results, standard emission factors, etc., with supporting calculations.

f. i. **Sulfur Dioxide Requirements (SO<sub>2</sub>)**

A. Pursuant to Construction Permit 04060017, the Permittee shall not exceed the following limits from the reheat furnace: [T1]

Pollutant	(Tons/Mo)	(Tons/Yr)
SO <sub>2</sub>	0.05	0.42

B. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2,000 ppm.

ii. Compliance Method (SO<sub>2</sub> Requirements)

Monitoring

A. 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). [T1]

- B. Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall use pipeline quality natural gas with a certification from the natural gas supplier that the sulfur content in the supplied natural gas does not exceed 2000 ppm.

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records related to SO<sub>2</sub> emissions:
  - I. Monthly and annual emissions of SO<sub>2</sub> (tons/month and tons/year), based on the material throughput, emission tests results, standard emission factors, etc., with supporting calculations.
  - II. Certification of the sulfur content in the supplied pipeline natural gas.

**g. i. Operational or Production Requirements**

- A. Pursuant to Construction Permit 04060017, the Permittee shall not exceed the following limits and requirements: [T1]
  - I. Annual natural gas usage of the reheat furnace shall not exceed 1,401.6 million scf.
  - II. Natural gas shall be the only fuel fired in the reheat furnace.

ii. Compliance Method (Operational or Production Requirements)

Monitoring

- A. 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). [T1]

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the records of monthly and annual natural gas usage (scf/mo and scf/yr).

**3. Non-Applicability Determinations**

- a. Reheat furnace is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources because it does not have any air pollution control devices used to comply with any applicable emission limit or standard.
- b. Reheat furnace is not subject to 35 IAC 216.121 because it is not a fuel combustion emission unit as defined in 35 IAC 211.2470.

**4. Other Requirements**

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

**5. Reporting Requirements**

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

**a. Prompt Reporting**

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- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
  - I. Requirements in Conditions 4.4(2)(a), 4.4(2)(b), 4.4(2)(c), 4.4(2)(d), 4.4(2)(e), 4.4(2)(f), and 4.4(2)(g).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
  - A. Date and time of the deviation.
  - B. Emission unit(s) and/or operation involved.
  - C. The duration of the event.
  - D. Probable cause of the deviation.
  - E. Corrective actions or preventative measures taken.

**4.5 Slag Processing System**

**1. Emission Units and Operations**

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Handling and Reprocessing	PM	1987	None	None	None

**2. Applicable Requirements**

For the emission units in Condition 4.5(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7) (a), 39.5(7) (b), and 39.5(7) (d) of the Act.

**a. i. Opacity Requirements**

A. 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 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

**ii. Compliance Method (Opacity Requirements)**

Monitoring

A. Pursuant to Sections 39.5(7) (b) and (d) of the Act, the Permittee shall perform opacity observations of the slag processing operations at all points of slag processing and handling in accordance with Method 9 and Section 7.1 of this permit on at least monthly basis. If visible emissions greater than 30% are observed, the Permittee shall take corrective action within 24 hours of such observation. Corrective action may include, but is not limited to, shut down of the operation, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up opacity observation in accordance with Method 9.

Recordkeeping

- B. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records for each observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 4 hours of the observation.
- C. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records for all Method 9 opacity measurements made in accordance with Condition 4.5.2(a) (ii) (A) above.

**b. i. Particulate Matter Requirements (PM)**

A. Pursuant to 35 IAC 212.321(a), 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 for which, 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, which, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See Condition 7.2).

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- B. Pursuant to Construction Permit 07120005 and 96030147, the Permittee shall not exceed the following limits from the slag processing system: [T1]

Pollutant	(Tons/Yr)
PM	8.8

ii. Compliance Method (PM Requirements)

Monitoring

- A. 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). [T1]
- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records related to PM emissions:
- I. Monthly and annual emissions of PM (tons/month and tons/year), based on the material throughput, emission tests results, standard emission factors, etc., with supporting calculations.
  - II. Records of the allowable PM emissions outlined by 35 IAC 212.321(c) based on the actual process weight rates of slag processed.

**3. Non-Applicability Determinations**

- a. Slag processing system is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources because this system does not have any air pollution control devices used to comply with any applicable emission limit or standard.

**4. Other Requirements**

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

**5. Reporting Requirements**

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

**a. Prompt Reporting**

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
  - I. Requirements in Conditions 4.5(2)(a) and 4.5(2)(b).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
  - A. Date and time of the deviation.

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**Section 4 - Emission Unit Requirements**  
**4.5 - Slag Processing System**

- B. Emission unit(s) and/or operation involved.
- C. The duration of the event.
- D. Probable cause of the deviation.
- E. Corrective actions or preventative measures taken.

**4.6 Fugitive Emissions**

**1. Emission Units and Operations**

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Paved/Unpaved Roads; Aggregate Handling and Storage Piles; Slag Piles; Industrial Wind Erosion	PM	N/A	N/A	None	None

**2. Applicable Requirements**

For the emission units in Condition 4.6(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

**a. i. Opacity Requirements**

A. 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 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Compliance Method (Opacity Requirements)

Monitoring

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, the Permittee shall perform opacity observations of fugitive emissions at the crucial points of the aggregate handling and storage piles in accordance with Method 9 and Section 7.1 of this permit on at least monthly basis. If visible emissions greater than 30% are observed, the Permittee shall take corrective action within 24 hours of such observation. Corrective action may include, but is not limited to, shut down of the operation, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up opacity observation in accordance with Method 9.

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 4 hours of the observation.

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all Method 9 opacity measurements made in accordance with Condition 4.6.2(a)(ii)(A) above.

**b. i. Particulate Matter Requirements (PM)**

A. Pursuant to permits 07120005 and 96030147, total fugitive emissions (from slag storage piles (wind erosion), truck/rail truck unloading on storage piles, the haul road, scrap handling and production supplies) of PM from the source shall not exceed 10.54 tons/year [T1].

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ii. Compliance Method (PM Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall conduct semi-annual inspections of the enclosed building where loading/unloading is performed to ensure that all applied operations are performed inside the building and integrity of the building is well maintained.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of PM emissions, with supporting documentation and calculations.
- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain the records of all scheduled or unscheduled inspections of the building.

c. i. Work Practice Requirements

- A. Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall control fugitive PM emissions by vacuum sweeping the roads at least once a day, unless any measurable precipitation recorded by State Water Survey Office in Bourbonnais, has occurred during the previous 24 hours or there is snow or ice build-up on the road.

ii. Compliance Method (Work practice Requirements)

Recordkeeping

- A. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain logs of the road sweeping activities performed, including the date and duration of sweeping.

**3. Non-Applicability Determinations**

Pursuant to 35 IAC 212.302, the emissions generated by a fugitive dust are not subject to requirements of 35 IAC 212.304 through 212.312, because the source is located outside of the geographical area identified in 35 IAC 212.302.

**4. Other Requirements**

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

**5. Reporting Requirements**

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
- I. Requirements in Conditions 4.6(2)(a), 4.6(2)(b), and 4.6(2)(c).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).

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- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
  - A. Date and time of the deviation.
  - B. Emission unit(s) and/or operation involved.
  - C. The duration of the event.
  - D. Probable cause of the deviation.
  - E. Corrective actions or preventative measures taken.

## Section 5 - Additional Title I Requirements

### 5.1 - Title I Requirements

This sub-section is reserved for Title I requirements not specified in Sections 3 or 4. As of the date of issuance of this permit, there are no Title I requirements that need to be separately addressed in this sub-section.

## Section 6 - Insignificant Activities Requirements

### 1. Insignificant Activities Subject to Specific Regulations

This condition is reserved for insignificant activities, as defined in 35 IAC 201.210 and 201.211, which are subject to specific standards promulgated pursuant Sections 111, 112, 165, or 173 of the Clean Air Act, see Sections 9.1(d) and 39.5(6)(a) of the Act. As of the date of issuance of this permit, there are no such insignificant activities present at the source.

### 2. Insignificant Activities in 35 IAC 201.210(a)

In addition to any insignificant activities identified in Condition 6.1, the following additional activities at the source constitute insignificant activities pursuant to 35 IAC 201.210 and 201.211:

<i>Insignificant Activity</i>	<i>Number of Units</i>	<i>Insignificant Activity Category</i>
Cooling Tower	1	35 IAC 201.210(a)(1)
Carbon Silo	1	35 IAC 201.210(a)(1)
Ladle Preheater/Dryout	4	35 IAC 201.210(a)(1)
Cutoff Torches	1	35 IAC 201.210(a)(3)
Direct combustion units used for comfort heating and fuel combustion emission units as further detailed in 35 IAC 201.210(a)(4).	4	35 IAC 201.210(a)(4)
Lime Silos	3	35 IAC 201.211(a)
Gasoline Storage Tanks	2	35 IAC 201.211(a)

### 3. Insignificant Activities in 35 IAC 201.210(b)

Pursuant to 35 IAC 201.210, the source has identified insignificant activities as listed in 35 IAC 201.210(b)(1) through (28) as being present at the source. The source is not required to individually list the activities.

### 4. Applicable Requirements

Insignificant activities in Conditions 6.1 and 6.2 are subject to the following general regulatory limits notwithstanding status as insignificant activities. The Permittee shall comply with the following requirements, as applicable:

- a. 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 35 IAC 212.122, except as provided in 35 IAC 212.123(b).
- b. Pursuant to 35 IAC 212.321 or 212.322 (see Conditions 7.2(a) and (b)), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceed the allowable emission rates specified 35 IAC 212.321 or 212.322 and 35 IAC Part 266.
- c. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2,000 ppm, except as provided in 35 IAC Part 214.
- d. Pursuant to 35 IAC 215.301, no person shall cause or allow the discharge of more than 8 lbs/hr of organic material into the atmosphere from any emission source, except as

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provided in 35 IAC 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of 35 IAC 215 Subpart K shall apply only to photochemically reactive material.

- e. Pursuant to 35 IAC 215.122(b), no person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 250 gal, unless such tank is equipped with a permanent submerged loading pipe, submerged fill, or an equivalent device approved by the IEPA according to 35 IAC Part 201 or unless such tank is a pressure tank as described in 35 IAC 215.121(a) or is fitted with a recovery system as described in 35 IAC 215.121(b)(2). Exception as provided in 35 IAC 215.122(c): If no odor nuisance exists the limitations of 35 IAC 215.122 shall only apply to the loading of volatile organic liquid with a vapor pressure of 2.5 psia or greater at 70°F.

**5. Compliance Method**

Pursuant to Section 39.5(7)(b) of the Act, the source shall maintain records of the following items for the insignificant activities in Conditions 6.1 and 6.2:

- a. List of all insignificant activities, including insignificant activities added as specified in Condition 6.6, the categories the insignificant activities fall under, and supporting calculations as needed for any insignificant activities listed in 35 IAC 201.210(a)(1) through (3).
- b. Potential to emit emission calculations before any air pollution control device for any insignificant activities listed in 35 IAC 201.210(a)(1) through (3).

**6. Notification Requirements for Insignificant Activities**

The source shall notify the IEPA accordingly to the addition of insignificant activities:

**a. Notification 7 Days in Advance**

- i. Pursuant to 35 IAC 201.212(b), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(1) and 201.211 and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. Addresses are included in Attachment 3. The notification shall include the following pursuant to 35 IAC 201.211(b):
  - A. A description of the emission unit including the function and expected operating schedule of the unit.
  - B. A description of any air pollution control equipment or control measures associated with the emission unit.
  - C. The emissions of regulated air pollutants in lb/hr and ton/yr.
  - D. The means by which emissions were determined or estimated.
  - E. The estimated number of such emission units at the source.
  - F. Other information upon which the applicant relies to support treatment of such emission unit as an insignificant activity.
- ii. Pursuant to 35 IAC 201.212(b), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(2) through 201.210(a)(18) and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. Addresses are included in Attachment 3.

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iii. Pursuant to Sections 39.5(12)(a)(i)(b) and 39.5(12)(b)(iii) of the Act, the permit shield described in Section 39.5(7)(j) of the Act (see Condition 2.7) shall not apply to any addition of an insignificant activity noted above.

**b. Notification Required at Renewal**

Pursuant to 35 IAC 201.212(a) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a) and is currently identified in Conditions 6.1 or 6.2, a notification is not required until the renewal of this permit.

**c. Notification Not Required**

Pursuant to 35 IAC 201.212(c) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(b) as describe in Condition 6.3, a notification is not required.

## Section 7 - Other Requirements

### 1. Testing

- a. Pursuant to Section 39.5(7)(a) of the Act, a written test protocol shall be submitted at least sixty (60) days prior to the actual date of testing, unless it is required otherwise in applicable state or federal statutes. The IEPA may at the discretion of the Compliance Section Manager (or designee) accept protocol less than 60 days prior to testing provided it does not interfere with the IEPA's ability to review and comment on the protocol and does not deviate from the applicable state or federal statutes. The protocol shall be submitted to the IEPA, Compliance Section and IEPA, Stack Test Specialist for its review. Addresses are included in Attachment 3. This protocol shall describe the specific procedures for testing, including as a minimum:
  - i. The name and identification of the emission unit(s) being tested.
  - ii. Purpose of the test, i.e., permit condition requirement, IEPA or USEPA requesting test.
  - iii. The person(s) who will be performing sampling and analysis and their experience with similar tests.
  - iv. 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 emission unit and any control equipment will be determined.
  - v. The specific determinations of emissions and operation which are intended to be made, including sampling and monitoring locations.
  - vi. The test method(s) that will be used, with the specific analysis method, if the method can be used with different analysis methods. Include if emission tests averaging of 35 IAC 283 will be used.
  - vii. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
  - viii. Any proposed use of an alternative test method, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
  - ix. Sampling of materials, QA/QC procedures, inspections, etc.
- b. The IEPA, Compliance Section shall be notified prior to these tests to enable the IEPA to observe these tests pursuant to Section 39.7(a) of the Act as follows:
  - i. Notification of the expected date of testing shall be submitted in writing a minimum of thirty (30) days prior to the expected test date, unless it is required otherwise in applicable state or federal statutes.
  - ii. Notification of the actual date and expected time of testing shall be submitted in writing a minimum of five (5) working days prior to the actual date of the test. The IEPA may at its discretion of the Compliance Section Manager (or designee) accept notifications with shorter advance notice provided such notifications will not interfere with the IEPA's ability to observe testing.
- c. Copies of the Final Report(s) for these tests shall be submitted to the IEPA, Compliance Section within fourteen (14) days after the test results are compiled and finalized but

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no later than ninety (90) days after completion of the test, unless it is required otherwise in applicable state or federal statutes or the IEPA may at the discretion of the Compliance Section Manager (or designee) an alternative date is agreed upon in advance pursuant to Section 39.7(a) of the Act. The Final Report shall include as a minimum:

- i. General information including emission unit(s) tested.
  - ii. A summary of results.
  - iii. Discussion of conditions during each test run (malfunction/breakdown, startup/shutdown, abnormal processing, etc.).
  - iv. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.
  - v. Detailed description of test conditions, including:
    - A. Process information, i.e., mode(s) of operation, process rate, e.g. fuel or raw material consumption.
    - B. Control equipment information, i.e., equipment condition and operating parameters during testing.
    - C. A discussion of any preparatory actions taken, i.e., inspections, maintenance and repair.
  - vi. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.
  - vii. An explanation of any discrepancies among individual tests or anomalous data.
  - viii. Results of the sampling of materials, QA/QC procedures, inspections, etc.
  - ix. Discussion of whether protocol was followed and description of any changes to the protocol if any occurred.
  - x. Demonstration of compliance showing whether test results are in compliance with applicable state or federal statutes.
- d. Copies of all test reports and other test related documentation shall be kept on site as required by Condition 2.5(b) pursuant to Section 39.5(7)(e)(ii) of the Act.

<b>2. PM Process Weight Rate Requirements</b>
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**a. New Process Emission Units - 35 IAC 212.321**

New Process Emission Units For Which Construction or Modification Commenced On or After April 14, 1972. [35 IAC 212.321]

- i. No person shall cause or allow the emission of PM into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of PM 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 35 IAC 212.321(c). See Condition 7.2(a)(iii) below. [35 IAC 212.321(a)]
- ii. Interpolated and extrapolated values of the data in 35 IAC 212.321(c) shall be determined by using the equation: [35 IAC 212.321(b)]

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

Where:

P = Process weight rate (T/hr)  
E = Allowable emission rate (lbs/hr)

A. Process weight rates of less than 450 T/hr:

A = 2.54  
B = 0.53

B. Process weight rates greater than or equal to 450 T/hr:

A = 24.8  
B = 0.16

iii. Limits for New Process Emission Units: [35 IAC 212.321(c)]

<u>P</u> (T/hr)	<u>E</u> (lbs/hr)	<u>P</u> (T/hr)	<u>E</u> (lbs/hr)
0.05	0.55	25.00	14.00
0.10	0.77	30.00	15.60
0.20	1.10	35.00	17.00
0.30	1.35	40.00	18.20
0.40	1.58	45.00	19.20
0.50	1.75	50.00	20.50
0.75	2.40	100.00	29.50
1.00	2.60	150.00	37.00
2.00	3.70	200.00	43.00
3.00	4.60	250.00	48.50
4.00	5.35	300.00	53.00
5.00	6.00	350.00	58.00
10.00	8.70	400.00	62.00
15.00	10.80	450.00	66.00
20.00	12.50	500.00	67.00

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**3. 40 CFR 63 Subpart A Requirements (NESHAP)**

**a. 40 CFR 63 Subpart A and Subpart YYYYY - Electric Arc Furnace Steelmaking Facilities**

Pursuant to 40 CFR 63 Subpart A and Subpart YYYYY, the Permittee shall comply with the following applicable General Provisions as indicated:

<i>General Provision Citation</i>	<i>General Provision Applicable?</i>	<i>Subject of Citation</i>	<i>Explanation (if required)</i>
40 CFR 63.1	Yes	General Applicability of the General Provisions	With exception of: 40 CFR 63.1(a)(5), (a)(7)-(a)(9), (b)(2), (c)(3), (c)(4), (d)
40 CFR 63.2	Yes	Definitions	
40 CFR 63.3	Yes	Units and Abbreviations	
40 CFR 63.4	Yes	Prohibited Activities and Circumvention	
40 CFR 63.5	Yes	Preconstruction Review and Notification Requirements	
40 CFR 63.6	Yes	Compliance with Standards and Maintenance Requirements	With exception of: 40 CFR 63.6(b)(6), (c)(3), (c)(4), (d), (e)(2), (e)(3)(ii), (h)(3), (h)(5)(iv)
40 CFR 63.7	Yes	Performance Testing Requirements	
40 CFR 63.8	Yes	Monitoring Requirements	Requirements apply if a COMS or CEMS is used
40 CFR 63.9	Yes	Notification Requirements	With exception of: 40 CFR 63.9(b)(3), (b)(4), (h)(4)
40 CFR 63.10	Yes	Recordkeeping and Reporting Requirements	
40 CFR 63.11	No	Control Device and Work Practice Requirements	
40 CFR 63.12	Yes	State Authority and Delegations	
40 CFR 63.13	Yes	Addresses of State Air Pollution Control Agencies and EPA Regional Offices	
40 CFR 63.14	Yes	Incorporations by Reference	
40 CFR 63.15	Yes	Availability of Information and Confidentiality	
40 CFR 63.16	Yes	Performance Track Provisions	

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**4. Compliance Assurance Monitoring (CAM) Requirements**

**a. CAM Provisions**

i. Proper Maintenance

Pursuant to 40 CFR 64.7(b), at all times, the source shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

ii. Continued Operation

Pursuant to 40 CFR 64.7(c), except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the source shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit (PSEU) is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of 40 CFR Part 64, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The source shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

iii. Response to Excursions or Exceedances

A. Pursuant to 40 CFR 64.7(d)(1), upon detecting an excursion or exceedance, the source shall restore operation of the PSEU (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

B. Pursuant to 40 CFR 64.7(d)(2), determination of whether the source has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device.

**b. Monitoring - Monitoring**

Pursuant to 40 CFR 64.7(a), the source shall comply with the monitoring requirements of the CAM Plans as described in tables 7.6.1 and 7.6.1 below, pursuant to 40 CFR Part 64 as submitted in the source's CAM plan application.

**c. Monitoring - Recordkeeping**

Pursuant to 40 CFR 64.9(b)(1), the source shall maintain records of the monitoring data, monitor performance data, corrective actions taken, monitoring equipment maintenance, and other supporting information related to the monitoring requirements established for CAM.

**d. Monitoring - Reporting**

Pursuant to Sections 39.5(7)(b) and (f) of the Act, the source shall submit the following reporting requirements:

i. Semiannual Reporting

As part of the required Semiannual Monitoring Reports, the source shall submit a CAM report including the following at a minimum:

- A. Summary information on the number, duration, and cause of excursions or exceedances, and the corrective actions taken pursuant to 40 CFR 64.6(c)(3) and 64.9(a)(2)(i).
- B. Summary information on the number, duration, and cause for monitoring equipment downtime incidents, other than downtime associated with calibration checks pursuant to 40 CFR 64.6(c)(3) and 64.9(a)(2)(ii).

**e. CAM Plans**

The following tables contain the CAM Plans in this CAAPP permit:

Table	Emission Unit Section	PSEU Designation	Pollutant
7.4.1	4.1	EMF	PM

**Table 7.4.1 - CAM Plan**

Emission Unit Section:	4.1
PSEU Designation:	EAF
Pollutant:	PM

Indicators:	#1) Pressure Drop	#2) None
<b>General Criteria</b>		
The Monitoring Approach Used to Measure the Indicators:	Continuous monitoring of pressure drop across the baghouse. Recorded as four 15-minute averages per hour	None
The Indicator Range Which Provides a Reasonable Assurance of Compliance:	An excursion is defined when the total pressure drop outside the range of 2 to 16 inches of water	None
Quality Improvement Plan (QIP) Threshold Levels:	Outside the range of 2 to 16 inches of water	None
<b>Performance Criteria</b>		
The Specifications for Obtaining Representative Data:	Monthly operational status inspections of the equipment important to the total capture system	None
Verification Procedures to Confirm the Operational Status of the Monitoring:	N/A	None
Quality Assurance and Quality Control (QA/QC) Practices that Ensure the Validity of the Data:	Periodic calibration of pressure gauges	None
The Monitoring Frequency:	Continuous pressure drop measurement	None
The Data Collection Procedures That Will Be Used:	Total pressure drop is electronically recorded as four 15-minute averages per hour	None
The Data Averaging Period For Determining Whether an Excursion or Exceedance Has Occurred:	Hourly	None

**Section 8 - State Only Requirements**

**1. Permitted Emissions for Fees**

The annual emissions from the source for purposes of "Duties to Pay Fees" of Condition 2.3(e), not considering insignificant activities as addressed by Section 6, 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. The Permittee shall maintain records with supporting calculations of how the annual emissions for fee purposes were calculated. This Condition is set for the purpose of establishing fees and is not federally enforceable. See Section 39.5(18) of the Act.

<i>Pollutant</i>		<i>Tons/Year</i>
Volatile Organic Material	(VOM)	159.03
Sulfur Dioxide	(SO <sub>2</sub> )	276.22
Particulate Matter	(PM)	115.97
Nitrogen Oxides	(NO <sub>x</sub> )	194.90
HAP, not included in VOM or PM	(HAP)	
Total		746.12

**Attachment 1 - List of Emission Units at This Source**

<i>Section</i>	<i>Emission Units</i>	<i>Description</i>
4.1	Electric Arc Furnace (EAF)	EAF melts recycled scrap metal and other raw materials into molten steel with electric arcs from carbon electrodes.
4.2	Continuous Caster	The continuous billets emerge from the caster in strands.
4.3	EAF Dust Handling	Electric arc furnace dust is transferred by screw conveyors and pneumatic transporters to a storage silo for filling to railroad cars in an enclosed building.
4.4	Reheat Furnace	Billets are individually pushed through the natural gas-fired furnace to attain sufficiently high temperature to be rolled into rebar or other merchant products.
4.5	Slag Processing	Slag from the arc furnace is removed from the melt shop, taken to the processing site, sized and transported.
4.6	Fugitive Emissions	Paved/unpaved roads, aggregate handling and storage piles, etc.

Nucor Steel Kankakee, Inc.  
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## Attachment 2 - Acronyms and Abbreviations

acfm	Actual cubic feet per minute
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
BACT	Best Available Control Technology
BAT	Best Available Technology
Btu	British Thermal Units
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAIR	Clean Air Interstate Rule
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CISWI	Commercial Industrial Solid Waste Incinerator
CO	Carbon monoxide
CO <sub>2</sub>	Carbon dioxide
COMS	Continuous Opacity Monitoring System
CPMS	Continuous Parameter Monitoring System
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
ERMS	Emissions Reduction Market System
°F	Degrees Fahrenheit
GHG	Green house gas
GACT	Generally Acceptable Control Technology
gr	Grains
HAP	Hazardous air pollutant
Hg	Mercury
HMIWI	Hospital medical infectious waste incinerator
hp	Horsepower
hr	Hour
H <sub>2</sub> S	Hydrogen sulfide
I.D. No.	Identification number of source, assigned by IEPA
IAC	Illinois Administrative Code
ILCS	Illinois Compiled Statutes
IEPA	Illinois Environmental Protection Agency
kw	Kilowatts
LAER	Lowest Achievable Emission Rate
lbs	Pound

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m	Meter
MACT	Maximum Achievable Control Technology
M	Thousand
MM	Million
mos	Month
MSDS	Material Safety Data Sheet
MSSCAM	Major Stationary Sources Construction and Modification (Non-attainment New Source Review)
MW	Megawatts
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>x</sub>	Nitrogen oxides
NSPS	New Source Performance Standards
NSR	New Source Review
PB	Lead
PEMS	Predictive Emissions Monitoring System
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
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
PSD	Prevention of Significant Deterioration
PSEU	Pollutant-Specific Emission Unit
psia	Pounds per square inch absolute
PTE	Potential to emit
RACT	Reasonable Available Control Technology
RMP	Risk Management Plan
scf	Standard cubic feet
SCR	Selective catalytic reduction
SIP	State Implementation 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

Attachment 3 - Contact and Reporting Addresses

<p style="text-align: center;">IEPA Compliance Section</p> <p style="text-align: center;">IEPA Stack Test Specialist</p> <p style="text-align: center;">IEPA Air Quality Planning Section</p> <p style="text-align: center;">IEPA Air Regional Field Operations Regional Office #1</p> <p style="text-align: center;">IEPA Permit Section</p>	<p>Illinois EPA, Bureau of Air Compliance &amp; Enforcement Section (MC 40) 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276  Phone No.: 217/782-2113</p> <p>Illinois EPA, Bureau of Air Compliance Section Source Monitoring - Third Floor 9511 Harrison Street Des Plaines, Illinois 60016  Phone No.: 847/294-4000</p> <p>Illinois EPA, Bureau of Air Air Quality Planning Section (MC 39) 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276  Phone No.: 217/782-2113</p> <p>Illinois EPA, Bureau of Air Regional Office #1 9511 West Harrison Des Plaines, Illinois 60016  Phone No.: 847/294-4000</p> <p>Illinois EPA, Bureau of Air Permit Section (MC 11) 1021 North Grand Avenue East P.O. Box 19506 Springfield, Illinois 62794-9506  Phone No.: 217/785-1705</p>
<p style="text-align: center;">USEPA Region 5 - Air Branch</p>	<p>USEPA (AR - 17J) Air and Radiation Division 77 West Jackson Boulevard Chicago, Illinois 60604  Phone No.: 312/353-2000</p>

**Attachment 4 - Example Certification by a Responsible Official**

<b>SIGNATURE BLOCK</b>	
NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE DEEMED AS INCOMPLETE.	
I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE. ANY PERSON WHO KNOWINGLY MAKES A FALSE, FICTITIOUS, OR FRAUDULENT MATERIAL STATEMENT, ORALLY OR IN WRITING, TO THE ILLINOIS EPA COMMITS A CLASS 4 FELONY. A SECOND OR SUBSEQUENT OFFENSE AFTER CONVICTION IS A CLASS 3 FELONY. (415 ILCS 5/44(H))	
AUTHORIZED SIGNATURE:	
BY: _____	_____
AUTHORIZED SIGNATURE	TITLE OF SIGNATORY
_____	_____/_____/_____
TYPED OR PRINTED NAME OF SIGNATORY	DATE

Nucor Steel Kankakee, Inc.  
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