

DRAFT/PROPOSED CAAPP PERMIT  
February 4, 2014

Attention:

John Deere Harvester Works- East Moline  
Attn: James Wiegand  
1100 Thirteenth Avenue  
East Moline, Illinois 61244

State of Illinois

CLEAN AIR ACT PERMIT  
PROGRAM (CAAPP) PERMIT

Source:

John Deere Harvester Works-East Moline  
1100 - 13th Avenue  
East Moline, Illinois 61244

I.D. No.: 161025AAH  
Permit No.: 95110076

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: Issue New Permit to an Existing Major Source

ID No.: 161025AAH  
Permit No.: 95110076  
Statement of Basis No.: 95110076-1309

Date Application Received: January 16, 2008  
Date Issued: TBD

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

Source Name: John Deere Harvester Works-East Moline  
Address: 1100 - 13th Avenue  
City: East Moline  
County: Rock Island  
ZIP Code: 61244

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 Rosario Johnstone at 217/785-1705.

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

REP:MTR:RJ:psj

cc: IEPA, Permit Section  
IEPA, FOS, Region 2

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**Section 1 - Source Information**

**1. Addresses**

Source

John Deere Harvester Works-East Moline  
 1100 Thirteenth Avenue  
 East Moline, Illinois 61244

Owner

Deere and Company  
 One John Deere Place  
 Moline, Illinois 61265

Operator

John Deere Harvester Works-East Moline  
 1100 Thirteenth Avenue  
 East Moline, Illinois 61244

Permittee

The Owner and 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>	R. David DeVault	Factory Manager
<i>Delegated Authority</i>	N/A	N/A

Other Contacts

	<i>Name</i>	<i>Phone No.</i>	<i>Email</i>
<i>Source Contact</i>	James Wiegand	309-765-6672	WiegandJamesD@JohnDeere.com
<i>Technical Contact</i>	James Wiegand	309-765-6672	WiegandJamesD@JohnDeere.com
<i>Correspondence</i>	James Wiegand	309-765-6672	WiegandJamesD@JohnDeere.com
<i>Billing</i>	James Wiegand	309-765-6672	WiegandJamesD@JohnDeere.com

**3. Single Source**

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

<i>I.D. No.</i>	<i>Permit No.</i>	<i>Single Source Name and Address</i>
161 025 ABV	08060009	John Deere Harvester Works-Metokote 3015 Fifth Avenue East Moline, Illinois 612444

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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 \_\_\_\_\_ (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.

## 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 John Deere Harvester Works. 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(c)(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. NESHAP Standards (40 CFR 63 Subpart DDDDD)**

Pursuant to 40 CFR 63.7495(b), no later than January 31, 2016, the source must:

- i. Meet the applicable general provisions of 40 CFR 63 Subpart A. See Condition 7.3(a).
- ii. Have a one-time energy assessment performed on the source as specified in 40 CFR 63 Subpart DDDDD Table 3 Condition 4, pursuant to 40 CFR 63.7500(a)(1).

**e. 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**

- i. Pursuant to 35 IAC 212.309, this source shall be operated under the provisions of Fugitive PM Operating Program prepared by the Permittee 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). The Permittee shall comply with the Fugitive PM Operating Program and any amendments to the Fugitive PM Operating Program submitted pursuant to Condition 3.2(a)(ii). As a minimum, the Fugitive PM Operating Program shall include provisions identified in 35 IAC 212.310(a) through (g) and the following:
  - A. A detailed description of the best management practices utilized to achieve compliance with 35 IAC 212.304 through 212.308.
  - B. Estimated frequency of application of dust suppressants by location.
  - C. Such other information as may be necessary to facilitate the IEPA's review of the Fugitive PM Operating Program.
- ii. Pursuant to 35 IAC 212.312, the Fugitive PM Operating Program shall be amended from time to time by the Permittee so that the Fugitive PM Operating Program is current. Such amendments shall be consistent with the requirements set forth by this

Condition 3.2(a) and shall be submitted to the IEPA within 30 days of such amendment. Any future revision to the Fugitive PM Operating Program made by the Permittee during the permit term 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 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.

- iii. The Fugitive PM Operating Program, as submitted by the Permittee on September 9, 2013, is incorporated herein by reference. The document constitutes the formal Fugitive PM Operating Program required under 35 IAC 212.310, addressing the control of fugitive particulate matter emissions from all plant roadways, including the iron-making and steel-making roads, storage piles, access areas near storage piles, and other subject operations located at the facility that are subject to 35 IAC 212.309.
- iv. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep a copy of the Fugitive PM Operating Program, any amendments or revisions to the Fugitive PM Operating Program (as required by Condition 3.2(a)), and the Permittee shall also keep a record of activities completed according to the Fugitive PM Operating Program.

**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 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 January 23, 2012 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).

**3. Title I Requirements**

**a. i. Permit # 97060105 Requirements [T1]**

- A. Pursuant to Permit # 97060105, Permittee shall operate all the existing emission units such that Volatile Organic Material (VOM) emissions from the plant-wide not exceed 55 tons/month and 287 tons/year.

**ii. Compliance Method (Permit # 97060105)**

**Monitoring**

- A. Pursuant to Construction Permit #97060105, 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).

**Recordkeeping**

- C. Pursuant to Section 39.5(7) (a) of the Act, the Permittee shall keep source-wide monthly and annual records of VOM emitted by the source with supporting calculations.

**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 Conditions 3.1(a) (i).
  - II. Requirements in Conditions 3.2(a), and 3.2(c).
  - III. Requirements in Conditions 3.3(a).

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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.
- 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. NESHAP Reporting (40 CFR 63 Subpart DDDDD)
  - Pursuant to 40 CFR 63 Subpart DDDDD, the source must:
    - A. Include with the Notification of Compliance Status (40 CFR 63.9(h)(2)) a signed certification that the energy assessment was completed according to 40 CFR 63 Subpart DDDDD Table 3 and is an accurate depiction of the source, pursuant to 40 CFR 63.7530(e).

**Section 4 - Emission Unit Requirements**

**4.1 Coating Operations**

**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>
EUC E-Coat line (elctrodeposition dip tank D915E ), Combine Spray Coating (D915Sp), and Combine Touch-Up Spray Coating (D980Tu) Miscellaneous Touch-up Activities	PM, VOM, HAP	1997	N/A	Water Wall and Filter	None
HdrSP Header Coating Booth	PM, VOM, HAP	2005	N/A	Filter	None

**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 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.
- B. Pursuant to 35 IAC 212.123(b), the emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 305 m (1000 ft) radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period.

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

Monitoring

- A. Pursuant to Sections 39.5(7) (b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity on each individual stack or stacks associated with each coating operation in accordance with Method 22 for visible emissions at least once every calendar year. If visible emissions are observed, the Permittee shall take corrective action within 4 hours of such observation. Corrective action may include, but is not limited to, shut down of the coating operation, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 shall be conducted within 7 days in accordance with Condition 2.4.

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Recordkeeping

- B. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records for each observation for opacity conducted. 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, if required, the Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9.

**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 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, at a source or premises, to exceed the allowable emission rates specified in 35 IAC 212.321(c). See also Section 7.2(a).
- B. Pursuant to Construction Permit #05020044, the PM emissions from coating booth HdrSP shall not exceed the following limits. [T1]

<u>(Lb/hr)</u>	PM <u>(Tons/Year)</u>
0.55	2.41

ii. Compliance Method (PM Requirements)

Monitoring

- A. Pursuant to Section 39.5(7) (a) of the Act, the Permittee shall perform semi-annual inspections of the air pollution control devices used.
- B. Pursuant to Section 39.5(7) (a) of the Act, the Permittee shall change the filters used at least semiannually or per manufacturer recommendations.

Recordkeeping

- C. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep monthly and annual records of solids in applied coatings for the coating operations.
- D. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep hourly monthly and annual actual emissions (lb/hr, lb/month and tons/year) of PM from each coating operation, with supporting calculations, along with calculations of allowable emissions by 35 IAC 212.321(a).
- E. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep the air pollution control device inspection, maintenance and replacement log.

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

- A. Pursuant to 35 IAC 215.204(k) (2), the VOM content, excluding water and any compounds which are specifically exempted from the definition of volatile organic material, in the applied Heavy Off-Highway Vehicle Products Coatings at the coating line shall not exceed the following limits:

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- I. Extreme performance prime coat: 0.42 kg/l (3.5 lb/gal)
- II. Extreme performance top coat-air dried: 0.52 kg/l (4.3 lb/gal)
- III. Final repair coat dried: 0.58 kg/l (4.8 lb/gal)
- B. Pursuant to Construction Permit #05020044, the VOM usage and VOM emissions from the coating booth HdrSP shall not exceed the following limits. [T1]

	VOM (Tons/Month)	(Tons/Year)
	30.0	119.00

ii. Compliance Method (VOM Requirements)

Monitoring

- A. Pursuant to 35 IAC 215.208 and Section 39.5(7) (b) of the Act, testing for VOM content of coatings shall be performed either of the following procedures:
  - I. On an annual basis, the VOM content of coatings "as applied" shall be determined according to Method 24 of 40 CFR 60 Appendix A, or
  - II. This testing may be performed by the supplier of a material provided that the supplier provides documentation for such testing to the Permittee and the Permittee's records directly reflect the application of such material and separately account for any additions of solvent. This documentation may include manufacturer specification sheets or material safety data sheets.

Recordkeeping

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

Coating:

- I. Density of each coating in units of lb/gallon or kg/l
- II. VOM content of each coating in weight percent
- III. The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied on the affected coating operations
- IV. The VOM usage of the coating booth in units of tons/month and tons/yr.

VOM Emissions:

- V. Monthly and annual VOM emissions (ton/month and ton/yr).

VOM Content Testing (wt. %):

- VI. Identification of material tested or
- VII. Results of analyses or supplier documentation.
- VIII. Documentation of analysis methodology.

IX. Vendor performing analysis.

d. i. Hazardous Air Pollutant Requirements (HAP)

The source is subject to the requirements of 40 CFR 63 Subpart MMM National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Miscellaneous Metal Parts and Products. Pursuant to 40 CFR 63.3890(b)(1), (b)(2) and (b)(5), the Permittee shall comply with the following limits for the different coatings in use for metal surface coating:

- A. HAP content in each general use coating shall not exceed 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period; [40 CFR 63.3890(b)(1)]
- B. HAP content in each high performance coating shall not exceed 3.3 kg (27.5 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period; [40 CFR 63.3890(b)(2)] and
- C. HAP content in each extreme performance fluoropolymer coating shall not exceed 1.5 kg (12.4 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period. [40 CFR 63.3890(b)(5)]

ii. Compliance Method (HAP Requirements)

Monitoring

- A. Pursuant to 40 CFR 63.3891, the Permittee must include all coatings (as defined in 40 CFR 63.3981), thinners and/or other additives, and cleaning materials used in the affected source when determining whether the organic HAP emission rate is equal to or less than the applicable emission limit in 40 CFR 63.3890. To make this determination, the Permittee must use at least one of the two compliance options listed in paragraphs (I) through (II) of this condition. The Permittee may apply any of the compliance options to an individual coating operation, or to multiple coating operations as a group, or to the entire affected source. The Permittee may use different compliance options for different coating operations or at different times on the same coating operation. The Permittee may employ different compliance options when different coatings are applied to the same part, or when the same coating is applied to different parts. However, the Permittee may not use different compliance options at the same time on the same coating operation.

I. Compliant material option. The Permittee shall demonstrate that the organic HAP content of each coating used in the coating operation(s) is less than or equal to the applicable emission limit in 40 CFR 63.3890, and that each thinner and/or other additive, and cleaning material used contains no organic HAP. The Permittee must meet all the requirements of 40 CFR 63.3940, 63.3941, and 63.3942 to demonstrate compliance with the applicable emission limit using this option.

- 1. Pursuant to 40 CFR 63.3942(a), for each compliance period to demonstrate continuous compliance, the Permittee must use no coating for which the organic HAP content (determined using Equation 2 of 40 CFR 63.3941) exceeds the applicable emission limit in 40 CFR 63.3890, and use no thinner and/or other additive, or cleaning material that contains organic HAP, determined according to 40 CFR 63.3941(a). A compliance period consists of 12 months. Each month, after the end of the initial compliance period described in 40 CFR 63.3940, is the

end of a compliance period consisting of that month and the preceding 11 months.

2. Pursuant to 40 CFR 63.3942(b), if the Permittee chooses to comply with the emission limitations by using the compliant material option, the use of any coating, thinner and/or other additive, or cleaning material that does not meet the criteria specified above is a deviation from the emission limitations that must be reported as specified in 40 CFR 63.3910(c) (6) and 63.3920(a) (5).

**II. Emission rate without add-on controls option.** The Permittee shall demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operation(s), the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit in 40 CFR 63.3890, calculated as a rolling 12-month emission rate and determined on a monthly basis. The Permittee must meet all the requirements of 40 CFR 63.3950, 63.3951, and 63.3952 to demonstrate compliance with the emission limit using this option.

1. Pursuant to 40 CFR 63.3952(a), to demonstrate continuous compliance, the organic HAP emission rate for each compliance period, determined according to 40 CFR 63.3951(a) through (g), must be less than or equal to the applicable emission limit in 40 CFR 63.3890. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in 40 CFR 63.3950 is the end of a compliance period consisting of that month and the preceding 11 months. The Permittee must perform the calculations in 40 CFR 63.3951(a) through (g) on a monthly basis using data from the previous 12 months of operation.
2. Pursuant to 40 CFR 63.3952(b), if the organic HAP emission rate for any 12-month compliance period exceeded the applicable emission limit in 40 CFR 63.3890, this is a deviation from the emission limitation for that compliance period and must be reported as specified in 40 CFR 63.3910(c) (6) and 40 CFR 63.3920(a) (6).

- B. Continuous compliance demonstration with the limits established in 40 CFR 63.3890(b) shall be performed pursuant to 40 CFR 63.3963.

Recordkeeping

- C. Pursuant to 40 CFR 63.3930(a), the Permittee shall retain a copy of each notification and report that the Permittee submitted to comply with 40 CFR 63 Subpart M, and the documentation supporting each notification and report.
- D. Pursuant to 40 CFR 63.3930(b), the Permittee shall retain a current copy of information provided by material suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner and/or other additive, and cleaning material, and the volume fraction of coating solids for each coating. If the Permittee conducted testing to determine mass fraction of organic HAP, density, or volume fraction of coating solids, the Permittee must keep a copy of the complete test report. If the Permittee uses information provided to the Permittee by the manufacturer or supplier of the material that was based on testing, the Permittee must keep the summary sheet of results provided to the Permittee by the manufacturer or

**Section 4 - Emission Unit Requirements**  
**4.1 - Coating Operations**

supplier. The Permittee is not required to obtain the test report or other supporting documentation from the manufacturer or supplier.

- E. Pursuant to 40 CFR 63.3930(c), for each compliance period, the Permittee shall retain the records specified below.
  - I. Pursuant to 40 CFR 63.3930(c)(1), a record of the coating operations on which the Permittee used each compliance option and the time periods (beginning and ending dates and times) for each option the Permittee used.
  - II. Pursuant to 40 CFR 63.3930(c)(2), for the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 2 of 40 CFR 63.3941.
  - III. Pursuant to 40 CFR 63.3930(c)(3), for the emission rate without add-on controls option, a record of the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1, 1A through 1C, and 2 of 40 CFR 63.3951; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to 40 CFR 63.3951(e)(4); the calculation of the total volume of coating solids used each month using Equation 2 of 40 CFR 63.3951; and the calculation of each 12-month organic HAP emission rate using Equation 3 of 40 CFR 63.3951.
- F. Pursuant to 40 CFR 63.3930(d), the Permittee shall keep a record of the name and volume of each coating, thinner and/or other additive, and cleaning material used during each compliance period. If the Permittee is using the compliant material option for all coatings at the source, the Permittee may maintain purchase records for each material used rather than a record of the volume used.
- G. Pursuant to 40 CFR 63.3930(e), the Permittee shall keep a record of the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each compliance period unless the material is tracked by weight.
- H. Pursuant to 40 CFR 63.3930(f), the Permittee shall keep a record of the volume fraction of coating solids for each coating used during each compliance period.
- I. Pursuant to 40 CFR 63.3930(g), for the emission rate without add-on controls compliance option the Permittee shall keep a record of the density for each coating, thinner and/or other additive, and cleaning material used during each compliance period.
- J. Pursuant to 40 CFR 63.3930(h), if the Permittee uses an allowance in Equation 1 of 40 CFR 63.3951 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to 40 CFR 63.3951(e)(4), the Permittee must keep records of the information specified below:
  - I. Pursuant to 40 CFR 63.3930(h)(1), the name and address of each TSDF to which the Permittee sent waste materials for which the Permittee uses an allowance in Equation 1 of 40 CFR 63.3951; a statement of which subparts under 40 CFR parts 262, 264, 265, and 266 apply to the facility; and the date of each shipment.
  - II. Pursuant to 40 CFR 63.3930(h)(2), identification of the coating operations producing waste materials included in each shipment and

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the month or months in which the Permittee used the allowance for these materials in Equation 1 of 40 CFR 63.3951.

- III. Pursuant to 40 CFR 63.3930(h)(3), the methodology used in accordance with 40 CFR 63.3951(e)(4) to determine the total amount of waste materials sent to or the amount collected, stored, and designated for transport to a TSDF each month; and the methodology to determine the mass of organic HAP contained in these waste materials. This must include the sources for all data used in the determination, methods used to generate the data, frequency of testing or monitoring, and supporting calculations and documentation, including the waste manifest for each shipment.
- K. Pursuant to 40 CFR 63.3930(j), the Permittee must keep records of the date, time, and duration of each deviation.
- L. Pursuant to 40 CFR 63.3931(a), the records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). Where appropriate, the records may be maintained as electronic spreadsheets or as a database.
- M. Pursuant to 40 CFR 63.3931(b) and 40 CFR 63.10(b)(1), the Permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- N. Pursuant to 40 CFR 63.3931(c), the Permittee shall keep each record on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to 40 CFR 63.10(b)(1). The Permittee may keep the records off-site for the remaining 3 years.
- O. Pursuant to Section 39.5(7)(b), the Permittee shall maintain records of the HAP contents of the coatings, thinners, and cleaning solvents as used.

### 3. Non-Applicability Determinations

- a. Pursuant to 35 IAC 215.209, Exemption from General Rule on Use of Organic Material, no coating line subject to the limitations of 35 IAC 215.204 is required to meet 35 IAC 215.301 or 215.302 after the date by which the coating line is required to meet 35 IAC 215.204.
- b. The coating lines are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because each coating line does not use an add-on control device to achieve compliance with emission limitation or standard for any pollutant other than PM emissions. For PM, each coating line does not have potential pre-control device emissions 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

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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)(i), 4.1.2(b)(i), 4.1.2(c)(i), and 4.1.2(d)(i).
- 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 Reports 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**

Pursuant to 40 CFR 63.3920(a), the Permittee must submit semiannual compliance reports for each affected coating operation according to the requirements below. The semiannual compliance reporting requirements may be satisfied by reports required under other parts of the Clean Air Act (CAA), as specified in 40 CFR 63.3920(a)(2).

- i. Pursuant to 40 CFR 63.3920(a)(1), unless the IEPA has approved or agreed to a different schedule for submission of reports under 40 CFR 63.10(a), the Permittee must prepare and submit each semiannual compliance report according to the dates specified below. Note that the information reported for each of the months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.
  - A. Pursuant to 40 CFR 63.3920(a)(1)(ii), each subsequent semiannual compliance report must cover the subsequent semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
  - B. Pursuant to 40 CFR 63.3920(a)(1)(iii), each semiannual compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.
- ii. Pursuant to 40 CFR 63.3920(a)(2), the Permittee shall report all deviations in the semiannual monitoring report.
- iii. Pursuant to 40 CFR 63.3920(a)(3), the semiannual compliance report must contain the information specified below:
  - A. The company name and address.
  - B. A statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

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**4.1 - Coating Operations**

- C. The date of the report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31. Note that the information reported for each of the 6 months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.
  - D. Identification of the compliance option or options as specified in 40 CFR 63.3891 that the Permittee used on each coating operation during the reporting period. If the Permittee switched between compliance options during the reporting period, the Permittee must report the beginning and ending dates for each option the Permittee used.
- iv. Pursuant to 40 CFR 63.3920(a)(4), if there were no deviations from the emission limitations in 40 CFR 63.3890, 63.3892, and 63.3893 that apply to the Permittee, the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period.
  - v. Pursuant to 40 CFR 63.3920(a)(5), if the Permittee used the compliant material option and there was a deviation from the applicable organic HAP content requirements in 40 CFR 63.3890, the semiannual compliance report must contain the information below.
    - A. Identification of each coating used that deviated from the applicable emission limits, and each thinner and/or other additive, and cleaning material used that contained organic HAP, and the dates and time periods each was used.
    - B. The calculation of the organic HAP content (using Equation 2 of 40 CFR 63.3941) for each coating identified in 40 CFR 63.3920 (a)(5)(i). The Permittee does not need to submit background data supporting this calculation (e.g., information provided by coating suppliers or manufacturers, or test reports).
    - C. The determination of mass fraction of organic HAP for each thinner and/or other additive, and cleaning material identified in 40 CFR 63.3920(a)(5)(i). The Permittee does not need to submit background data supporting this calculation (e.g., information provided by material suppliers or manufacturers, or test reports).
    - D. A statement of the cause of each deviation.
  - vi. Pursuant to 40 CFR 63.3920(a)(6), if the Permittee used the emission rate without add-on controls option and there was a deviation from the applicable emission limit in 40 CFR 63.3890, the semiannual compliance report must contain the information below.
    - A. Pursuant to 40 CFR 63.3920(a)(6)(i), the beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the applicable emission limit in 40 CFR 63.3890.
    - B. Pursuant to 40 CFR 63.3920(a)(6)(ii), the calculations used to determine the 12-month organic HAP emission rate for the compliance period in which the deviation occurred. The Permittee must submit the calculations for Equations 1, 1A through 1C, 2, and 3 of 40 CFR 63.3951; and if applicable, the calculation used to determine mass of organic HAP in waste materials according to 40 CFR 63.3951(e)(4). The Permittee does not need to submit background data supporting these calculations (e.g., information provided by materials suppliers or manufacturers, or test reports).
    - C. Pursuant to 40 CFR 63.3920(a)(6)(iii), a statement of the cause of each deviation.

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- vii. Pursuant to 40 CFR 63.3942(c), as part of each semiannual compliance report required by 40 CFR 63.3920, the Permittee must identify the coating operation(s) for which the Permittee used the compliant material option. If there were no deviations from the applicable emission limit in 40 CFR 63.3890, the Permittee shall submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because the Permittee used no coatings for which the organic HAP content exceeded the applicable emission limit in 40 CFR 63.3890, and the Permittee used no thinner and/or other additive, or cleaning material that contained organic HAP, determined according to 40 CFR 63.3941(a).
  
- viii. Pursuant to 40 CFR 63.3952(c), as part of each semiannual compliance report required by 40 CFR 63.3920, the Permittee must identify the coating operation(s) for which the Permittee used the emission rate without add-on controls option. If there were no deviations from the emission limitations, the Permittee must submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in 40 CFR 63.3890, determined according to 40 CFR 63.3951(a) through (g).
  
- ix. Pursuant to 40 CFR 63.3963(e), if the Permittee did not develop a work practice plan, or did not implement the plan, or did not keep the records required by 40 CFR 63.3930(k)(8), this is a deviation from the work practice standards that must be reported as specified in 40 CFR 63.3920(a)(7).

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4.2 Natural Gas Fired Boiler

**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>
98.1 mmBtu/hr Natural Gas Fired Boiler with Low NO <sub>x</sub> burner B10	PM, CO, NO <sub>x</sub> , SO <sub>2</sub>	1996	None	None	None

**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. In addition, the boilers shall comply with the applicable requirements in Section 5.2.

**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.
- B. Pursuant to 35 IAC 212.123(b), the emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 305 m (1000 ft) radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period.

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

Monitoring

- A. Pursuant to Sections 39.5(7) (b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity in accordance with Method 22 for visible emissions at least once every calendar year. If visible emissions are observed, the Permittee shall take corrective action within 4 hours of such observation. Corrective action may include, but is not limited to, shut down of the boiler, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 shall be conducted within 7 days in accordance with Condition 2.4.

Recordkeeping

- B. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records for each observation for opacity conducted. 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.

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C. Pursuant to Section 39.5(7) (b) of the Act, if required, the Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9.

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

A. Pursuant to Construction Permit #96050089, emissions from the boiler shall not exceed the following limits: [T1]

<u>Pollutant</u>	<u>(Lb/Hr)</u>	<u>(Tons/Yr)</u>
PM	0.48	2.13

ii. Compliance Method (PM Requirements)

**Monitoring**

A. Pursuant to Construction Permit #96050089, 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 total of 12 months of data).

B. Pursuant to Section 39.5(7) (a) of the Act, compliance with hourly limits shall be determined on the 30-day monthly rolling average.

**Recordkeeping**

C. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep the records of monthly and annual PM emissions (lb/hr and ton/year), including supporting calculations.

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

A. Pursuant to Construction Permit #96050089, emissions from the boiler shall not exceed the following limits: [T1]

<u>Pollutant</u>	<u>(Lb/Hr)</u>	<u>(Tons/Yr)</u>
SO <sub>2</sub>	0.06	0.26

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

**Monitoring**

A. Pursuant to Construction Permit #96050089, 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 total of 12 months of data).

B. Pursuant to Section 39.5(7) (a) of the Act, compliance with hourly limits shall be determined on the 30-day monthly rolling average.

**Recordkeeping**

C. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of the SO<sub>2</sub> emissions from the boiler including supporting calculations (lb/hr and ton/year).

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

A. Pursuant to 35 IAC 216.121, no person shall cause or allow the emission of carbon monoxide (CO) into the atmosphere from any fuel combustion emission

source with actual heat input greater than 2.9 MW (10 mmBtu/hr) to exceed 200 ppm, corrected to 50 percent excess air.

- B. Pursuant to Construction Permit #96050089, emissions from the boiler shall not exceed the following limits: [T1]

<u>Pollutant</u>	<u>(Lb/Hr)</u>	<u>(Tons/Yr)</u>
CO	3.88	17.02

ii. Compliance Method (CO Requirements)

**Monitoring**

- A. For sufficient monitoring see also Condition 4.2.2(g) (i) and (g) (ii).
- B. Pursuant to Construction Permit #96050089, 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 total 12 months of data).
- C. Pursuant to Section 39.5(7) (a) of the Act, compliance with hourly limits shall be determined on the 30-day monthly rolling average.

**Recordkeeping**

- D. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of CO emissions from the boiler with supporting calculations (lb/Hr and ton/year).

e. i. **Nitrogen Oxide Requirements (NO<sub>x</sub>)**

- A. Pursuant to Construction Permit #96050089, emissions from each boiler shall not exceed the following limits: [T1]

<u>Pollutant</u>	<u>(Lb/Hr)</u>	<u>(Tons/Yr)</u>
NO <sub>x</sub>	3.53	15.47

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

**Monitoring**

- A. Pursuant to Construction Permit #96050089, 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 total of 12 months of data).
- B. Pursuant to Section 39.5(7) (a) of the Act, compliance with hourly limits shall be determined on the 30-day monthly rolling average.

**Recordkeeping**

- C. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of the NO<sub>x</sub>, emissions from the boiler including supporting calculations (lb/hr and ton/year).

f. i. **MACT Requirements**

See Condition 5.2 for applicable requirements of 40 CFR 63 Subpart DDDDD.

g. i. Work Practice

- A. Pursuant to 40 CFR 60.48c(g)(2), the natural gas is the only fuel combusted at this boiler.
- B. Pursuant to Section 39.5(7)(d) of the Act, before the compliance date established in 40 CFR 63 Subpart DDDDD (See Condition 5.2.1), the Permittee shall comply with the following inspection and combustion evaluation requirements for the boiler. Inspections/combustion evaluations shall be conducted biannually but no later than 25 months after the previous combustion evaluation:
  - I. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, but each burner shall be inspected at least once every 36 months).
  - II. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
  - III. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.
  - IV. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.
  - V. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).
  - VI. If the unit is not operating on the required date for a combustion evaluation, the combustion evaluation must be conducted within one week of startup.
- C. After the compliance date established in 40 CFR 63 Subpart DDDDD (See Condition 5.2.1), the Permittee shall follow the work practices standards established in 40 CFR 63 Subpart DDDDD (See Condition 5.2.2)

ii. Compliance Method (Work Practice Requirements)

Recordkeeping

- A. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records onsite of combustion evaluation containing the following information:
  - I. The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the combustion evaluation of the boiler.
  - II. A description of any corrective actions taken as a part of the combustion evaluation of the boiler.
  - III. The type and amount of fuel used over the 12 months prior to the bi annual combustion evaluation of the boiler.
- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed along with a maintenance, repair log and combustion evaluation performed. These records shall include, at a minimum:

- I. date and time inspections were performed,
  - II. name(s) of inspection personnel,
  - III. identification of equipment being inspected,
  - IV. findings of the inspections,
  - V. operation and maintenance procedures,
  - VI. description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.
- C. Pursuant to 40 CFR 60.48c(g)(2), the Permittee shall keep records that the natural gas is the only fuel used at this boiler.

### **3. Non-Applicability Determinations**

- a. The boiler is not subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Source, 40 CFR Part 63 Subparts A and JJJJJJ, because the boiler is located at major source of HAP.
- b. The boiler is not subject to the New Source Performance Standards (NSPS) Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60, Subpart Db, because each boiler heat input is less than 100 mmBtu/hr, pursuant to 40 CFR 60.40b(a).
- c. The boiler is not subject to 35 IAC 212.206, Visible and PM emissions for Emission Units Using Liquid Fuel Exclusively and 35 IAC 214.161, because the boiler uses natural gas exclusively.
- d. The boiler is not subject to 35 IAC 214.161, SO<sub>2</sub> limitations because the boiler uses natural gas exclusively.
- e. Pursuant to 35 IAC 215.303, Use of Organic Material, the provisions of 35 IAC 215.301 and 215.302 shall not apply to fuel combustion emission sources.
- f. The boiler is not subject to 35 IAC 217.141, NO<sub>x</sub> emissions, because the heat input of the boiler is less than 250 mmBtu/hr.
- g. The boiler is not subject to 35 IAC 217, NO<sub>x</sub> emissions, Subparts D, E, F, G, H, I, and M, because the boiler is not located in any of the areas listed in 35 IAC 217.150(a)(1)(A).
- h. The boiler is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the boiler does not use an add-on control device to achieve compliance with any emission limitation 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.

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**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 4.2.2(a)(i) through 4.2.2(g)(i).
- 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. The Permittee shall submit the annual compliance reports, pursuant to 40 CFR 63.7550(b), no later than January 31 of each year following the compliance date of January 31, 2016.
- ii. The annual compliance reports shall contain the information required by 40 CFR 63.7550(c)(1) through (13).

4.3 Coal Fired Boilers

**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>
Two 114 mmBtu/hr Coal Fired Boilers B7, B8	CO, PM, SO <sub>2</sub> , HAP	Prior 1972	N/A	Two Multiclones and Electrostatic Precipitator	COMS
One 186 mmBtu/hr Coal/176 mmBtu/hr natural gas Fired Boiler B9 *	CO, PM, SO <sub>2</sub> , HAP	Prior 1972	N/A		

**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. In addition, the boilers shall comply with the applicable requirements in Section 5.3.

**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.
- B. Pursuant to 35 IAC 212.123(b), the emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 305 m (1000 ft) radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period.

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

Monitoring

- A. Pursuant to 35 IAC 39.5(7) (a), the Permittee shall calibrate, maintain, and operate a continuous opacity monitoring systems (COMS) and data collection system for measuring the opacity of emissions discharged to the atmosphere based on 6 minute block average.

Recordkeeping

- B. Pursuant to 35 IAC 39.5 (7) (b), the Permittee shall keep records for COMS, including the records of the output of the system and 6 minute averages, the time when COMS is not in service and duration of each such event. In addition, the Permitted shall maintain records of CAM data as required by condition 4.3.2(b) (ii) (G).

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

- A. Pursuant to 35 IAC 212.203, particulate matter emissions from the boilers shall not exceed in any one hour period, emit up to, but not exceed 0.31 kg/MW-hr (0.20 lbs/mmBtu).

ii. Compliance Method (PM Requirements)

Monitoring

- A. Pursuant to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, certain emission units/operations identified by Condition 4.3.1 and controlled by Two Multiclones and Electrostatic Precipitator are subject to 40 CFR Part 64. The Permittee shall comply with the monitoring requirements of the CAM Plan described in Condition 7.6 and Table 7.6.1, pursuant to 40 CFR Part 64 as submitted in the Permittee's CAM plan application. At all times, the Permittee shall maintain the monitoring equipment, 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

- B. Pursuant to 39.5(7) (d) of the Act, the Permittee shall test PM emissions from the boiler within 24 months of the effective date of this permit and every five years thereafter by using Reference Methods 1 - 4 and Reference Methods 1 - 4 and Reference Method 5 or other approved test methods, and comply with all the applicable requirements in Section 7.1 of this permit.

Recordkeeping

- C. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep hourly monthly and annual actual emissions of PM, with supporting calculations(lb/mmBtu).
- D. The Permittee shall keep a record of all emissions test results performed on the boilers as required in Section 7.1 of the permit.
- E. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records of the reporting requirements of 40 CFR 63.7550. See also Condition 4.3.5(b).
- F. Pursuant to 40 CFR 64.9(b) (1), for purposes of implementation of the CAM Plan, the Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR Part 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

c. i. Carbon Monoxide Requirements (CO)

- A. Pursuant to 35 IAC 216.121, no person shall cause or allow the emission of carbon monoxide (CO) into the atmosphere from any fuel combustion emission source with actual heat input greater than 2.9 MW (10 mmBtu/hr) to exceed 200 ppm, corrected to 50 percent excess air.

ii. Compliance Method (CO Requirements)

Monitoring

- A. For sufficient monitoring see Conditions 4.3.2(f) (i) and (f) (ii).

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

- A. Pursuant to 35 IAC 214.142(a), no person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any

existing fuel combustion source with actual heat input less than, or equal to, 73.2 MW (250 mmBtu/hr), burning solid fuel exclusively, located outside the Chicago, St. Louis (Illinois) or Peoria major metropolitan areas, to exceed the following, shall apply: 10.5 kg of sulfur dioxide per MW-hr of actual heat input (6.8 lbs/mmBtu).

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

Monitoring

- A. Pursuant to 35 IAC 214.101(e), the Permittee shall demonstrate compliance or non-compliance with 35 IAC 214.142(a) by either an analysis of calendar monthly composites of daily fuel samples provided by the vendor(s) to the Permittee or by compliance with 35 IAC 214.101(c), at the option of the plant. ASTM procedures incorporated by reference in 35 IAC 214.104(c), shall be used for sulfur and heating value determinations.

Recordkeeping

- B. Pursuant to Section 39.5(7) (b), the Permittee shall keep records of each coal analysis.
- C. Pursuant to Section 39.5(7) (b), the Permittee shall keep the records of monthly and annual SO<sub>2</sub> emissions when fired with each fuel, including supporting calculations (lbs/mmBtu).
- D. Pursuant to Section 39.5(7) (b), the Permittee shall maintain records for hours of operation per calendar year for each mode of operation.

e. i. MACT Requirements

See Condition 5.3 for applicable requirements of 40 CFR 63 Subpart DDDDD.

f. i. Work Practice

- A. Pursuant to Section 39.5(7) (a), coal and natural gas shall be the only fuels combusted in these boilers.
- B. Pursuant to Section 39.5(7) (d) of the Act, , before the compliance date established in 40 CFR 63 Subpart DDDDD (See Condition 5.3.1), the Permittee shall comply perform a combustion evaluation on each boiler at least biannually. This combustion evaluation shall consist of process measurements of the concentration of CO in the flue gas of the affected boiler, as well as any adjustments and/or corrective measures undertaken for the combustion systems of the boilers. Combustion evaluations shall be conducted biannually but no later than 25 months after the previous evaluation:
- I. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.
- II. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).
- III. If the unit is not operating on the required date for a combustion evaluation, the combustion evaluation must be conducted within one week of startup.

- C. After the compliance date established in 40 CFR 63 Subpart DDDDD (See Condition 5.3.1), the Permittee shall follow the work practices standards established in 40 CFR 63 Subpart DDDDD (See Condition 5.3.2).
- ii. Compliance Method (Work Practice Requirements)
- Recordkeeping
- A. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records onsite of inspections and combustion evaluations containing the following information:
- I. The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the combustion evaluation of the boiler.
  - II. A description of any corrective actions taken as a part of the combustion evaluation of the boiler.
  - III. The type and amount of fuel used over the 12 months prior to the biannual combustion evaluation of the boiler.
- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed along with a maintenance, repair log and combustion evaluations performed. These records shall include, at a minimum:
- I. date and time combustion evaluations were performed,
  - II. name(s) of evaluation personnel,
  - III. identification of equipment being evaluated,
  - IV. findings of the evaluation,
  - V. operation and maintenance procedures,
  - VI. description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.

### **3. Non-Applicability Determinations**

- a. The boilers are not subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Source, 40 CFR Part 63 Subparts A and JJJJJJ, because the boiler is located at major source of HAP.
- b. The boilers are not subject to the New Source Performance Standards (NSPS) Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60, Subpart Db, because the boilers were constructed prior to June 19, 1984, pursuant to 40 CFR 60.40b(b).
- c. The boilers are not subject to the New Source Performance Standards (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60 Subparts A and Dc, because the boilers have a design heat input capacity of greater than 29 MW (100 mmBtu/hr) pursuant to 40 CFR 60.40c(a).
- d. The boilers are not subject to 35 IAC 215.301 and 215.302, pursuant to 35 IAC 215.303, Use of Organic Material, because these requirements are not applicable to fuel combustion emission sources.

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- e. The boilers are not subject to 35 IAC 217.141, NO<sub>x</sub> emissions, because the heat input of the boilers are each less than 250 mmBtu/hr.
- f. The boilers are not subject to 35 IAC 217, NO<sub>x</sub> emissions Subparts D, E, F, G, H, I, and M, because the boiler is not located in any of the areas listed in 35 IAC 217.150(a)(1)(A).
- g. The boilers are not subject to 40 CFR Part 64, CAM requirements for CO, SO<sub>2</sub> or HAPs because the boilers do not have add on controls for these pollutants.

#### 4. Other Requirements

##### i. Start-up and Malfunction Breakdown Requirements

###### i. Authorization for State Requirements

###### A. Start-up Requirements

Pursuant to 35 IAC 201.149 and Part 201, Subpart I, subject to the following terms and conditions for affected Boilers #7, #8 and #9, the Permittee is authorized to violate the particulate matter standards in 35 IAC 212.203 and opacity standards in 35 IAC 212.123 (Conditions 4.3.2(b) and 4.3.2(a)) during startup.

Note: This authorization is provided because the Permittee applied for such authorization in its CAAPP application, generally describing the efforts that will be used to minimize startup emissions, duration of individual starts, and frequency of startups.

- I. This authorization does not relieve the Permittee from the continuing obligation to demonstrate that all reasonable efforts are made to minimize startup emissions, duration of individual startups and frequency of startups.
- II. The Permittee shall conduct startup of the boilers in accordance with the manufacturer's written instructions or other written procedures prepared by the Permittee and maintained at the source for the boilers, that are specifically developed to minimize emissions from startups and that include, at a minimum a review of the operational condition of the boilers prior to initiating startup of the boiler.
- III. The Permittee shall fulfill applicable recordkeeping requirements of Condition 7.4.b
- IV. The Permittee shall fulfill applicable notification and reporting requirements of Condition 7.4.c
- V. As provided by 35 IAC 201.265, an authorization in a permit for excess emissions during startup does not shield a Permittee from enforcement for any violation of applicable emission standard(s) that occurs during startup and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.

The Permittee shall comply with all applicable requirements in Section 7.5 of this permit.

###### B. Malfunction Breakdown Requirements

Pursuant to 35 IAC 201.149, 201.161, and 201.262, the source is authorized to continue operation in violation of the applicable requirements of

Conditions 4.3.2(a) and 4.3.2 (b) during malfunction breakdown. The Permittee shall comply with all applicable requirements in Section 7.6 of this permit.

## 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)(i) through (f)(i).
- 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 and Notification

- i. NESHAP Notification (40 CFR 63 Subpart DDDDD)

As of effective date of 40 CFR 63 Subpart DDDDD, April 1, 2013, the source shall:

  - A. Meet the applicable notification requirements of 40 CFR 63.7545 and 40 CFR Part 63 Subpart A.
  - B. Pursuant to 40 CFR 63.7545(d), the Permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.
  - C. Pursuant to 40 CFR 63.7545I, the Permittee is required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530, the Permittee must submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii). For the initial compliance demonstration for each boiler, the Permittee must submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for all boilers and process heaters at the facility according to 40 CFR 63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in paragraphs I(1) through (8), as applicable.

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- D. Pursuant to 40 CFR 63.7550(a) through (h), the Permittee shall submit each report in Table 9 that applies to the boilers.

**4.4 Gasoline Storage Tank and Dispensing Operations**

**1. Emission Units and Operations**

Emission Units	Pollutants Being Regulated	Original Construction Date	Modification/Reconstruction Date	Air Pollution Control Devices or Measures	Monitoring Devices
One Gasoline Storage Tank (500 gallons capacity) and dispensing operations	VOM	1993	None	Submerged Loading Pipe	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 39.5(7) (a), 39.5(7) (b), and 39.5(7) (d) of the Act.

**a. i. Work Practice Requirements (35 IAC Part 215)**

- A. 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 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe.
- B. Pursuant to 35 IAC 215.583(a), the transfer of gasoline from any delivery vessel into the stationary storage tank at a gasoline dispensing operations shall include the following:

The tank is equipped with a submerged loading pipe.

**ii. Compliance Method (State Work Practice Requirements)**

Monitoring

- A. Pursuant to Section 39.5(7) (a) of the Act, the Permittee shall conduct semi-annual inspections of the gasoline storage tank and dispensing operation while the tank is being filled by inspecting at least the following:
  - I. Retractors, hoses, breakaways, swivels.
  - II. Adapters, vapor caps, rubber gaskets, and spill containment buckets.
  - III. Gauges and meters.

Recordkeeping

- B. Pursuant to Section 39.5(7) (a) and (d) of the Act, the Permittee shall maintain the records of conducted inspections, with a date and results of such inspections.
- C. Pursuant to Section 39.5(7) (a) and (d) of the Act, the Permittee shall keep a copy of operating instructions and maintenance log.

**b. i. Operational and Production Requirements**

- A. Pursuant to Section 39.5(7) (a) of the Act, the average monthly gasoline throughput shall not exceed 10,000 gallons.

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

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Recordkeeping

- A. Pursuant to Section 39.5(7) (a) and (d) of the Act, the Permittee shall keep monthly and annual records of gasoline throughput.

**3. Non-Applicability Determinations**

- a. The gasoline storage tank and associated dispensing operations are not subject to 40 CFR 64, Compliance Assurance Monitoring (CAM) because these operations do not have potential pre-control device emissions of the applicable regulated air pollutant that equals or exceeds major source threshold levels.
- b. The gasoline storage tank is not subject to 40 CFR 63 Subpart CCCCC (NESHAP), National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities, because the tank is located at major source of HAP.
- c. The storage tanks are not subject to the New Source Performance Standards (NSPS) for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels), 40 CFR Part 60, Subpart Kb, because the capacity of each storage tank is less 75 cubic meters (19,813 gallons) pursuant to 40 CFR 60.110b(a).
- d. The gasoline storage tank is not subject to 35 IAC 215.301 because the gasoline storage tank does not use organic material as defined in 35 IAC 211.4250(b).
- e. The gasoline storage tank is not subject to 35 IAC 215.586I because the average monthly gasoline throughput is less than 10,000 gallons.
- f. The gasoline storage tank is not subject to 35 IAC 215.581 and 215.582 the tank is not a bulk gasoline plant or bulk gasoline terminal as defined in 35 IAC 211.790 and 211.810, respectively.

**4. Other Requirements**

As of the date of issuance of this permit, there are no such requirements that need to be included for gasoline storage tank.

**5. Reporting Requirements**

The Permittee shall submit the following information pursuant to 39.5(7) (f) of the Illinois Environmental Protection Act.

**a. Prompt Reporting**

- i. A. Pursuant to Section 39.5(7) (f) (ii) of the Act, the Permittee shall promptly notify the Illinois EPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows:
- I. Requirements in Conditions 4.4.2(a) (i), and (b) (i).
- 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 Illinois EPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Reports required by in Condition 3.5(b).
- iii. The deviation report shall contain at a minimum the following information:
- A. Date and time of the deviation.
- B. Emission unit(s) and/or operation involved.

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- C. The duration of the event.
- D. Probable cause of the deviation.
- E. Corrective actions or preventative measures taken.

4.5 Fly Ash Handling Operations

**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>
Flash Ash Separator	PM	1975	None	bag house	None
Pneumatic Transfer System, Silo w/ Bin Vents, and Load out Operation	PM	1975	None	Bag House and bin vent	None

**2. Applicable Requirements**

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.
- B. Pursuant to 35 IAC 212.123(b), the emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 305 m (1000 ft) radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period.

ii. Compliance Method (Opacity Requirements)

Monitoring

- A. Pursuant to Sections 39.5(7) (b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity on each individual stack or stacks associated with Fly Ash Handling operations and any point of fugitive emissions associated with this operations, in accordance with Method 22 for visible emissions at least once every calendar year. If visible emissions are observed, the Permittee shall take corrective action within 4 hours of such observation. Corrective action may include, but is not limited to, maintenance and repair, and/or adjustment of material transfer. If corrective action was taken, the Permittee shall perform a follow up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 shall be conducted within 7 days in accordance with Condition 2.4.

Recordkeeping

- B. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records for each observation for opacity conducted. 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.

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C. Pursuant to Section 39.5(7)(b) of the Act, if required, the Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9.

**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 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, at a source or premises, to exceed the allowable emission rates specified in 35 IAC 212.321(c). See also Section 7.2(a).

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

**Monitoring**

A. Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall perform annual inspections of the air pollution control devices used.

**Recordkeeping**

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep hourly, monthly and annual actual emissions (lb/hr, lb/month and tons/year) of PM from each Fly Ash Handling operations, with supporting calculations, along with calculations of allowable emissions by 35 IAC 212.321(a). Compliance with the hourly limits shall be determined on the 30-day monthly rolling average.

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the air pollution control device inspection, maintenance and replacement log.

**3. Non-Applicability Determinations**

a. The Fly Ash Handling Operations is not subject to 40 CFR 64, Compliance Assurance Monitoring (CAM) because these operations do not have potential pre-control device emissions of the applicable regulated air pollutant 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 4.5.2(a)(i), and 4.5.2(b)(i).

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**4.5 - Fly Ash Handling Operations**

- 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.

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## Section 5 - Additional 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.

**5.2 - MACT Requirements (40 CFR 63 Subpart DDDDD) Natural Gas Fired Boiler B10**

In addition to requirements established in Sections 3 and 4, Boilers 10 is subject to the following newly established MACT requirements:

**1. Future Compliance Date**

- a. Pursuant to 40 CFR 63.7495(b), the Permittee shall comply with the provisions of Subpart DDDDD no later than January 31, 2016, except as provided in 40 CFR 63.6(i).

**2. Work Practice Standards**

- a. Pursuant to 40 CFR 63.7500(a)(1) and 40 CFR 63 Subpart DDDDD Table 3, conduct a tune-up of the boiler annually as specified in 40 CFR 63.7540. Pursuant to 40 CFR 63.7515(d), each annual tune-up must be no more than 13 months after the previous tune-up. Pursuant to 40 CFR 63.7540(a)(13), if the boiler is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup.
- b. Pursuant to 40 CFR 63.7540(a)(10)(i) through 63.7540(a)(10)(v), each annual tune-up shall consist of:
- i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, but the Permittee must inspect each burner at least once every 36 months).
  - ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
  - iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.
  - iv. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.
  - v. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).
- c. Compliance Method (NESHAP Requirements)

## Recordkeeping Requirements

- i. Pursuant to 40 CFR 63.7540(a)(10)(vi)(A) through (C), maintain records of each tune-up as follows:
- A. The concentrations of carbon monoxide in the effluent stream in parts per million by volume, and oxygen in volume percent, measured before and after the adjustments of the boiler.
  - B. A description of any corrective actions taken as a part of the combustion adjustment.
  - C. The type and amount of fuel used over the 12 months prior to the annual adjustment, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.

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- ii. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of the reporting requirements of 40 CFR 63.7550. See also Condition 4.2.5(b).

**3. Notifications**

- a. Pursuant to 40 CFR 63.7545, the Permittee shall submit the following notifications to the Illinois EPA, Compliance Section:
  - i. Include with the Notification of Compliance Status (40 CFR 63.9(h)(2)) a signed certification that the energy assessment was completed according to 40 CFR 63 Subpart DDDDD Table 3 and is an accurate depiction of the source, pursuant to 40 CFR 63.7530(e).

**4. Reports**

- a. Pursuant to 40 CFR 63.7550, the Permittee shall comply with applicable compliance reports on the compliance date established above.

**5. Affirmative Defense for Violation of Emission Standards During Malfunction**

- a. Pursuant to 40 CFR 63.7501, the Permittee shall in response to an action to enforce the standards set forth in 40 CFR 63.7500, the Permittee may assert an affirmative defense to a claim for civil penalties for violations of such standards that are caused by malfunction, as defined at 40 CFR 63.2. Appropriate penalties may be assessed if the Permittee fails to meet the burden of proving all of the requirements in the affirmative defense. The affirmative defense shall not be available for claims for injunctive relief.

**5.3 - MACT Requirements (40 CFR 63 Subpart DDDDD) for Boilers #7, #8, and #9**

In addition to requirements established in Sections 3 and 4, Boilers #7, #8, and #9 are subject to the following newly established MACT requirements:

**1. Future Compliance Date**

- a. Pursuant to 40 CFR 63.7495(b), the Permittee shall comply with the provisions of Subpart DDDDD no later than January 31, 2016, except as provided in 40 CFR 63.6(i).

**2. Emission Limits**

- a. Pursuant to 40 CFR 63.7500 and Table 2 to Subpart DDDDD, the Permittee shall comply with applicable emission limits appropriate for the boilers design and the emission options chosen by the Permittee by the compliance date established above (5.3.1(a)).

**3. Work Practice Standards**

- a. Pursuant to 40 CFR 63.7500 and Table 3 to Subpart DDDDD, the Permittee shall comply with applicable work practice standards appropriate for the boilers design and the work practice standards chosen by the Permittee by the compliance date established above (5.3.1(a)).

**4. Operating Limits**

- a. Pursuant to 40 CFR 63.7500, 63.7520 and Tables 4 and 7 to Subpart DDDDD, the Permittee shall comply with applicable operating limits appropriate for the boilers design, monitoring, and air pollution control configuration chosen by the Permittee by the compliance date established above (5.3.1(a)).

**5. Initial Performance Test, and Fuel Analyses**

- a. Pursuant to 40 CFR 63.7520 and Table 5 to Subpart DDDDD, the Permittee shall comply with applicable testing requirements appropriate for the boilers design and chosen by the Permittee by the compliance date established above (5.3.1(a)).
- b. Pursuant to 40 CFR 63.7521 and Table 6 to Subpart DDDDD, the Permittee shall comply with applicable fuel analysis requirements appropriate for the type of fuel used and chosen by the Permittee by the compliance date established above (5.3.1(a)).
- c. Pursuant to 40 CFR 63.7510(e), the Permittee shall complete the initial compliance demonstration, no later than 180 days after the compliance date established above (5.3.1(a)).

**6. Notifications**

- a. Pursuant to 40 CFR 63.7545, the Permittee shall submit the following notifications to the Illinois EPA, Compliance Section:
  - i. A Notification of Intent to conduct a performance test at least 60 days the performance test is scheduled to begin.
  - ii. A Notification of Compliance Status, including all performance test results and fuel analyses, shall be submitted before the close of business on the 60th day following the completion of all performance tests and/or other initial compliance demonstration for all boilers according to 40 CFR 63.10(d)(2). The Notification of Compliance Status report shall contain all the information specified in 40 CFR 63.7545(e)(1) through (e)(8), as applicable.

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**7. Reports**

- a. Pursuant to 40 CFR 63.7550 and Table 9 to Subpart DDDDD, the Permittee shall comply with applicable compliance reports after the compliance date established above (5.3.1(a)).

**8. Affirmative Defense for Violation of Emission Standards During Malfunction**

- a. Pursuant to 40 CFR 63.7501, the Permittee shall in response to an action to enforce the standards set forth in 40 CFR 63.7500 , the Permittee may assert an affirmative defense to a claim for civil penalties for violations of such standards that are caused by malfunction, as defined at 40 CFR 63.2. Appropriate penalties may be assessed if the Permittee fails to meet the burden of proving all of the requirements in the affirmative defense. The affirmative defense shall not be available for claims for injunctive relief.

**Section 6 - Insignificant Activities Requirements**

**1. Insignificant Activities Subject to Specific Regulations**

Pursuant to 35 IAC 201.146, the following activities at the source constitute insignificant activities obligated to comply with Sections 9.1(d) and Section 39.5 of the Act; Sections 165, 173, and 502 of the Clean Air Act; or any other applicable permit or registration requirements:

<i>Insignificant Activity</i>	<i>Number of Units</i>	<i>Insignificant Activity Category</i>
Gas turbines and stationary reciprocating internal combustion engines < 112 kW (150 HP).	1	35 IAC 201.210(a) (15)
Gas Turbines and Engines between 112 KW and 1,118 KW (150 and 1,500 HP) that are emergency or standby units.	3	35 IAC 201.210(a) (16)

**a. 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 in addition to the applicable requirements in Condition 6.4:

**i. New Source Performance Standard Requirements (NSPS)**

- A. Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60 Subpart IIII,)
  - I. Pursuant to 40 CFR 60.4205(b) and 60.4202(a) (2), the engines are subject to the emission limitations of 40 CFR 89.112 and 89.113.
  - II. The engines shall meet the applicable general provisions of 40 CFR 60 Subpart A. See Condition 7.4(a).
  - III. The engines shall comply with the applicable emission limitations and operating limitations, fuel requirements, general compliance requirements, testing and initial compliance requirements, continuous compliance requirements, notifications, reports, and records and other requirements and information of 40 CFR 60 Subpart IIII and 40 CFR 89 Subpart B.
- B. Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40 CFR 60 Subpart JJJJ)
  - I. The engines shall meet the emission limitation requirements of 40 CFR 60.4233.
  - II. The engines shall meet the applicable general provisions of 40 CFR 60 Subpart A.
  - III. The engines shall comply with the applicable emission limitations and operating limitations, fuel requirements, general compliance requirements, testing and initial compliance requirements, continuous compliance requirements, notifications, reports, and records and other requirements and information of 40 CFR 60 Subpart JJJJ.

**ii. National Emission Standards for Hazardous Air Pollutants (NESHAP)**

- A. Standards of Performance for Stationary Reciprocating Internal Combustion Engines (40 CFR 60 Subpart ZZZZ)

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- I. Pursuant to 40 CFR 63.6590(a)(1)(iii) and 40 CFR 63.6590(b)(3)(viii), the existing engines do not have to meet the requirements of this subpart and of subpart A including initial notification requirements. See Condition 7.3(c).
- II. Pursuant to 40 CFR 63.6590(a)(1)(iii) and 40 CFR 60.6590(c), new engines must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines.

**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>
Antifreeze Tank	1	35 IAC 201.210(a)(1) and 201.211
Sheet metal Lasers	23	35 IAC 201.210(a)(1) and 201.211
Coal Handling	1	35 IAC 201.210(a)(1) and 201.211
Automatic Welding\Machining Stations	175	35 IAC 201.210(a)(2) or 201.210(a)(3)
Manual Welding Stations	400	35 IAC 201.210(a)(2) or 201.210(a)(3)
Storage Silo	1	35 IAC 201.210(a)(2) or 201.210(a)(3)
Rotational Molding Machines and associated ovens	5	35 IAC 201.210(a)(2) or 201.210(a)(3)
Solvent Still	1	35 IAC 201.210(a)(4)
Storage tanks < 10,000 gallon with annual throughput < 100,000 gallon (not storing gasoline or any material listed as a HAP).	14	35 IAC 201.210(a)(10)

**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.

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**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.
- 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.

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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

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

**a. 40 CFR 63 Subpart A and DDDDD - Boilers National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters**

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

<i>General Provision Citation</i>	<i>Subject of Citation</i>	<i>Applies to subpart DDDDD</i>
40 CFR 63.1	General Applicability of the General Provisions	Yes.
40 CFR 63.2	Definitions	Yes. Additional terms defined in 40 CFR 63.7575
40 CFR 63.3	Units and Abbreviations	Yes.
40 CFR 63.4	Prohibited Activities and Circumvention	Yes.
40 CFR 63.5	Preconstruction Review and Notification Requirements	Yes.
40 CFR 63.6(a), (b) (1)-(b) (5), (b) (7), (c)	Compliance with Standards and Maintenance Requirements	Yes.
40 CFR 63.6(e) (1) (i)	General duty to minimize emissions.	No. See 40 CFR 63.7500(a) (3) for the general duty requirement.
40 CFR 63.6(e) (1) (ii)	Requirement to correct malfunctions as soon as practicable.	No.
40 CFR 63.6(e) (3)	Startup, shutdown, and malfunction plan requirements.	No.
40 CFR 63.6(f) (1)	Startup, shutdown, and malfunction exemptions for compliance with non-opacity emission standards.	No.
40 CFR 63.6(f) (2) and (3)	Compliance with non-opacity emission standards.	Yes.
40 CFR 63.6(g)	Use of alternative standards	Yes.
40 CFR 63.6(h) (1)	Startup, shutdown, and malfunction exemptions to opacity standards.	No. See 40 CFR 63.7500(a).
40 CFR 63.6(h) (2) to (h) (9)	Determining compliance with opacity emission standards	Yes.
40 CFR 63.6(i)	Extension of compliance	Yes. Note: Facilities may also request extensions of compliance for the installation of combined heat and power, waste heat recovery, or gas pipeline or fuel feeding infrastructure as a means of complying with this subpart.
40 CFR 63.6(j)	Presidential exemption.	Yes.
40 CFR 63.7(a), (b), (c), and (d)	Performance Testing Requirements	Yes.
40 CFR 63.7(e) (1)	Conditions for conducting performance tests	No. Subpart DDDDD specifies conditions for conducting performance tests at 40 CFR 63.7520(a) to (c).
40 CFR 63.7(e) (2)-(e) (9), (f), (g), and (h)	Performance Testing Requirements	Yes.

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7.3 - 40 CFR 63 Subpart A  
Requirements (NESHAP)

<i>General Provision Citation</i>	<i>Subject of Citation</i>	<i>Applies to subpart DDDDD</i>
40 CFR 63.8(a) and (b)	Applicability and Conduct of Monitoring	Yes.
40 CFR 63.8(c) (1)	Operation and maintenance of CMS	Yes.
40 CFR 63.8(c) (1) (i)	General duty to minimize emissions and CMS operation	No. See 40 CFR 63.7500(a) (3).
40 CFR 63.8(c) (1) (ii)	Operation and maintenance of CMS	Yes.
40 CFR 63.8(c) (1) (iii)	Startup, shutdown, and malfunction plans for CMS	No.
40 CFR 63.8(c) (2) to (c) (9)	Operation and maintenance of CMS	Yes.
40 CFR 63.8(d) (1) and (2)	Monitoring Requirements, Quality Control Program	Yes.
40 CFR 63.8(d) (3)	Written procedures for CMS	Yes, except for the last sentence, which refers to a startup, shutdown, and malfunction plan. Startup, shutdown, and malfunction plans are not required.
40 CFR 63.8(e)	Performance evaluation of a CMS	Yes.
40 CFR 63.8(f)	Use of an alternative monitoring method.	Yes.
40 CFR 63.8(g)	Reduction of monitoring data	Yes.
40 CFR 63.9	Notification Requirements	Yes.
40 CFR 63.10(a), (b) (1)	Recordkeeping and Reporting Requirements	Yes.
40 CFR 63.10(b) (2) (i)	Recordkeeping of occurrence and duration of startups or shutdowns	Yes.
40 CFR 63.10(b) (2) (ii)	Recordkeeping of malfunctions	No. See 40 CFR 63.7555(d) (7) for recordkeeping of occurrence and duration and 40 CFR 63.7555(d) (8) for actions taken during malfunctions.
40 CFR 63.10(b) (2) (iii)	Maintenance records	Yes.
40 CFR 63.10(b) (2) (iv) and (v)	Actions taken to minimize emissions during startup, shutdown, or malfunction	No.
40 CFR 63.10(b) (2) (vi)	Recordkeeping for CMS malfunctions	Yes.
40 CFR 63.10(b) (2) (vii) to (xiv)	Other CMS requirements	Yes.
40 CFR 63.10(b) (3)	Recordkeeping requirements for applicability determinations	No.
40 CFR 63.10(c) (1) to (9)	Recordkeeping for sources with CMS	Yes.
40 CFR 63.10(c) (10) and (11)	Recording nature and cause of malfunctions, and corrective actions	No. See 40 CFR 63.7555(d) (7) for recordkeeping of occurrence and duration and 40 CFR 63.7555(d) (8) for actions taken during malfunctions.
40 CFR 63.10(c) (12) and (13)	Recordkeeping for sources with CMS	Yes.
40 CFR 63.10(c) (15)	Use of startup, shutdown, and malfunction plan	No.

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7.3 - 40 CFR 63 Subpart A  
Requirements (NESHAP)

<i>General Provision Citation</i>	<i>Subject of Citation</i>	<i>Applies to subpart DDDDD</i>
40 CFR 63.10(d)(1) and (2)	General reporting requirements	Yes.
40 CFR 63.10(d)(3)	Reporting opacity or visible emission observation results	No.
40 CFR 63.10(d)(4)	Progress reports under an extension of compliance	Yes.
40 CFR 63.10(d)(5)	Startup, shutdown, and malfunction reports	No. See 40 CFR 63.7550(c)(11) for malfunction reporting requirements.
40 CFR 63.10(e)	Additional reporting requirements for sources with CMS	Yes.
40 CFR 63.10(f)	Waiver of recordkeeping or reporting requirements	Yes.
40 CFR 63.11	Control Device Requirements	No.
40 CFR 63.12	State Authority and Delegation	Yes.
40 CFR 63.13-63.16	Addresses, Incorporation by Reference, Availability of Information, Performance Track Provisions	Yes.
40 CFR 63.1(a)(5), (a)(7)-(a)(9), (b)(2), (c)(3)-(4), (d), 63.6(b)(6), (c)(3), (c)(4), (d), (e)(2), (e)(3)(ii), (h)(3), (h)(5)(iv), 63.8(a)(3), 63.9(b)(3), (h)(4), 63.10(c)(2)-(4), (c)(9).	Reserved	No.

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**b. 40 CFR 63 Subpart A and Subpart MMMM – National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products**

Pursuant to 40 CFR 63 Subpart A and Subpart MMMM, 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(a)(1)-(14)	Yes	General Applicability of the General Provisions	
40 CFR 63.1(b)(1)-(3)	Yes	Initial Applicability Determination	
40 CFR 63.1(c)(1)	Yes	Applicability After Standard Established	
40 CFR 63.1(c)(4)-(5)	Yes	Extensions and Notifications	
40 CFR 63.1(e)	Yes	Applicability of Permit Program Before Relevant Standard is Set	
40 CFR 63.2	Yes	Definitions	Additional definitions are specified in 40 CFR 63.3981.
40 CFR 63.1(a)-(c)	Yes	Units and Abbreviations	
40 CFR 63.4(1)-(5)	Yes	Prohibited Activities	
40 CFR 63.4(b)-(c)	Yes	Circumvention/Severability	
40 CFR 63.5(a)	Yes	Construction/Reconstruction	
40 CFR 63.5(d)	Yes	Application for Approval of Construction/Reconstruction	
40 CFR 63.5(e)	Yes	Approval of Construction/Reconstruction	
40 CFR 63.5(f)	Yes	Approval of Construction/Reconstruction Based on Prior State Review	
40 CFR 63.6(a)	Yes	Compliance With Standards and Maintenance Requirements- Applicability	
40 CFR 63.6(c)(1)-(5)	Yes	Compliance Dates for Existing Sources	Section 40 CFR 63.3883 specifies the compliance dates.
40 CFR 63.6(e)(1)-(2)	Yes	Operation and Maintenance	
40 CFR 63.6(f)(2)-(3)	Yes	Methods for Determining Compliance.	
40 CFR 63.6(g)(1)-(3)	Yes	Use of an Alternative Standard	
40 CFR 63.6(h)	No	Compliance With Opacity/Visible Emission Standards	Subpart MMMM does not establish opacity standards and does not require continuous opacity monitoring systems (COMS).
40 CFR 63.6(i)(1)-(16)	Yes	Extension of Compliance	
40 CFR 63.6(j)	Yes	Presidential Compliance Exemption	
40 CFR 63.7(a)(1)	Yes	Performance Test Requirements- Applicability	Applies to all affected sources. Additional requirements for performance testing are specified in 40 CFR 63.3964, 63.3965, and 63.3966.

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**Section 7 - Other Requirements**  
**7.3 - 40 CFR 63 Subpart A**  
**Requirements (NESHAP)**

<i>General Provision Citation</i>	<i>General Provision Applicable?</i>	<i>Subject of Citation</i>	<i>Explanation (if required)</i>
40 CFR 63.7(a)(3)	Yes	Performance Tests Required By the IEPA	
40 CFR 63.7(f)	Yes	Performance Test Requirements- Use of Alternative Test Method	Applies to all test methods except those used to determine capture system efficiency.
40 CFR 63.7(g)-(h)	Yes	Performance Test Requirements- Data Analysis, Recordkeeping, Reporting, Waiver of Test	Applies only to performance tests for capture system and add-on control device efficiency at sources using these to comply with the standard.
40 CFR 63.8(a)(1)-(3)	Yes	Monitoring Requirements- Applicability	Applies only to monitoring of capture system and add-on control device efficiency at sources using these to comply with the standard. Additional requirements for monitoring are specified in 40 CFR 63.3968.
40 CFR 63.8(a)(4)	Yes	Additional Monitoring Requirements	Subpart Mmmm does not have monitoring requirements for flares.
40 CFR 63.8(b)	Yes	Conduct of Monitoring	
40 CFR 63.8(c)(7)	Yes	CMS Out-of-Control Periods	
40 CFR 63.8(c)(8)	Yes	CMS Out-of-Control Periods and Reporting	40 CFR 63.3920 requires reporting of CMS out-of-control periods.
40 CFR 63.8(d)-(e)	Yes	Quality Control Program and CMS Performance Evaluation	Subpart Mmmm does not require the use of continuous emissions monitoring systems.
40 CFR 63.8(f)(1)-(5)	Yes	Use of an Alternative Monitoring Method	
40 CFR 63.8(f)(6)	Yes	Alternative to Relative Accuracy Test	Subpart Mmmm does not require the use of continuous emissions monitoring systems.
40 CFR 63.8(g)(1)-(5)	Yes	Data Reduction	Sections 63.3967 and 63.3968 specify monitoring data reduction.
40 CFR 63.9(a)-(d)	Yes	Notification Requirements	
40 CFR 63.9(e)	Yes	Notification of Performance Test	Applies only to capture system and add-on control device performance tests at sources using these to comply with the standard.
40 CFR 63.9(f)	Yes	Notification of Visible Emissions/Opacity Test	Subpart Mmmm does not have opacity or visible emissions standards.
40 CFR 63.9(g)(1)-(3)	Yes	Additional Notifications When Using CMS	Subpart Mmmm does not require the use of continuous emissions monitoring systems.
40 CFR 63.9(h)	Yes	Notification of Compliance Status	Section 63.3910 specifies the dates for submitting the notification of compliance status.
40 CFR 63.9(i)	Yes	Adjustment of Submittal Deadlines	
40 CFR 63.9(j)	Yes	Change in Previous Information	
40 CFR 63.10(a)	Yes	Recordkeeping/Reporting- Applicability and General Information	
40 CFR 63.10(b)(1)	Yes	General Recordkeeping Requirements	Additional requirements are specified in 40 CFR 40 CFR 63.3930 and 63.3931.

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**Section 7 - Other Requirements**  
**7.3 - 40 CFR 63 Subpart A**  
**Requirements (NESHAP)**

<i>General Provision Citation</i>	<i>General Provision Applicable?</i>	<i>Subject of Citation</i>	<i>Explanation (if required)</i>
40 CFR 63.10(b)(2)(i)-(v)	Yes	Recordkeeping Relevant to Startup, Shutdown, and Malfunction Periods and CMS	Requirements for startup, shutdown, and malfunction records only apply to add-on control devices used to comply with the standard.
40 CFR 63.10(b)(2)(vi)-(xi)	Yes		
40 CFR 63.10(b)(2)(xii)	Yes	Records	
40 CFR 63.10(b)(2)(xiii)	Yes		Subpart Mmmm does not require the use of continuous emissions monitoring systems.
40 CFR 63.10(b)(2)(xiv)	Yes		
40 CFR 63.10(b)(3)	Yes	Recordkeeping Requirements for Applicability Determinations	
40 CFR 63.10(c)(1)-(6)	Yes	Additional Recordkeeping Requirements for Sources with CMS	
40 CFR 63.10(c)(7)-(8)	Yes		The same records are required in 40 CFR 63.3920(a)(7).
40 CFR 63.10(c)(9)-(15)	Yes		
40 CFR 63.10(d)(1)	Yes	General Reporting Requirements	Additional requirements are specified in 40 CFR 63.3920.
40 CFR 63.10(d)(2)	Yes	Report of Performance Test Results	Additional requirements are specified in 40 CFR 63.3920(b).
40 CFR 63.10(d)(3)	Yes	Reporting Opacity or Visible Emissions Observations	Subpart Mmmm does not require opacity or visible emissions observations.
40 CFR 63.10(d)(4)	Yes	Progress Reports for Sources With Compliance Extensions	
40 CFR 63.10(d)(5)	Yes	Startup, Shutdown, and Malfunction Reports	Applies only to add-on control devices at sources using these to comply with the standard.
40 CFR 63.10(e)(1)-(2)	Yes	Additional CMS Reports	Subpart Mmmm does not require the use of continuous emissions monitoring systems.
40 CFR 63.10(e)(3)	Yes	Excess Emissions/CMS Performance Reports	Section 63.3920 (b) specifies the contents of periodic compliance reports.
40 CFR 63.10(e)(4)	Yes	COMS Data Reports	Subpart Mmmm does not specify requirements for opacity or COMS.
40 CFR 63.10(f)	Yes	Recordkeeping/Reporting Waiver	
40 CFR 63.11	Yes	Control Device Requirements/Flares	Subpart Mmmm does not specify use of flares for compliance.
40 CFR 63.12	Yes	State Authority and Delegations	
40 CFR 63.13	Yes	Addresses	
40 CFR 63.14	Yes	Incorporation by Reference	
40 CFR 63.15	Yes	Availability of Information/Confidentiality	Applies to all affected sources. Additional requirements for performance testing are specified in 40 CFR 40 CFR 63.3964, 63.3965, and 63.3966.

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**c. 40 CFR 63 Subpart A and ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

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

General Provision Citation	General Provision Applicable?	Subject of Citation	Explanation (if required)
40 CFR 63.1	Yes	General Applicability of the General Provisions	
40 CFR 63.2	Yes	Definitions	Additional terms defined in 40 CFR 63.6675
40 CFR 63.3	Yes	Units and Abbreviations	
40 CFR 63.4	Yes	Prohibited Activities and Circumvention	
40 CFR 63.5	Yes	Construction and reconstruction	
40 CFR 63.6(a)	Yes	Applicability	
40 CFR 63.6(b) (1) - (4)	Yes	Compliance dates for new and reconstructed sources	
40 CFR 63.6(b) (5)	Yes	Notification	
40 CFR 63.6(b) (6)	Yes	[Reserved]	
40 CFR 63.6(b) (7)	Yes	Compliance dates for new and reconstructed area sources that become major sources	
40 CFR 63.6(c) (1) - (2)	No	Compliance dates for existing sources	
40 CFR 63.6(c) (3) - (4)	Yes	[Reserved]	
40 CFR 63.6(c) (5)	Yes	Compliance dates for existing area sources that become major sources	
40 CFR 63.6(d)	Yes	[Reserved]	
40 CFR 63.6(e)	Yes	Operation and maintenance	
40 CFR 63.6(f) (1)	No	Applicability of standards	
40 CFR 63.6(f) (2)	Yes.	Methods for determining compliance	
40 CFR 63.6(f) (3)	Yes.	Finding of compliance	
40 CFR 63.6(g) (1) - (3)	Yes.	Use of alternate standard	
40 CFR 63.6(h)	No	Opacity and visible emission standards	Subpart ZZZZ does not contain opacity or visible emission standards.
40 CFR 63.6(i)	Yes.	Compliance extension procedures and criteria	
40 CFR 63.6(j)	Yes.	Presidential compliance exemption	
40 CFR 63.7(a) (1) - (2)	Yes	Performance test dates	Subpart ZZZZ contains performance test dates at 40 CFR 40 CFR 63.6610, 63.6611, and 63.6612.
40 CFR 63.7(a) (3)	Yes.	CAA section 114 authority	
40 CFR 63.7(b) (1)	Yes	Notification of performance test	Except that 40 CFR 63.7(b) (1) only applies as specified in 40 CFR 63.6645.
40 CFR 63.7(b) (2)	Yes	Notification of rescheduling	Except that 40 CFR 63.7(b) (2) only applies as specified in 40 CFR 63.6645.
40 CFR 63.7(c)	Yes	Quality assurance/test plan	Except that 40 CFR 63.7(c) only applies as specified in 40 CFR 63.6645.
40 CFR 63.7(d)	Yes.	Testing facilities	
40 CFR 63.7(e) (1)	No.	Conditions for conducting performance tests	Subpart ZZZZ specifies conditions for conducting performance tests at 40 CFR 63.6620.
40 CFR 63.7(e) (2)	Yes	Conduct of performance tests and reduction of data	Subpart ZZZZ specifies test methods at 40 CFR 63.6620.
40 CFR 63.7(e) (3)	Yes.	Test run duration	

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**Section 7 - Other Requirements**  
**7.3 - 40 CFR 63 Subpart A**  
**Requirements (NESHAP)**

General Provision Citation	General Provision Applicable?	Subject of Citation	Explanation (if required)
40 CFR 63.7(e) (4)	Yes.	Administrator may require other testing under section 114 of the CAA	
40 CFR 63.7(f)	Yes.	Alternative test method provisions	
40 CFR 63.7(g)	Yes.	Performance test data analysis, recordkeeping, and reporting	
40 CFR 63.7(h)	Yes.	Waiver of tests	
40 CFR 63.8(a) (1)	Yes	Applicability of monitoring requirements	Subpart ZZZZ contains specific requirements for monitoring at 40 CFR 63.6625.
40 CFR 63.8(a) (2)	Yes.	Performance specifications	
40 CFR 63.8(a) (3)		[Reserved]	
40 CFR 63.8(a) (4)	No.	Monitoring for control devices	
40 CFR 63.8(b) (1)	Yes.	Monitoring	
40 CFR 63.8(b) (2)-(3)	Yes.	Multiple effluents and multiple monitoring systems	
40 CFR 63.8(c) (1)	Yes.	Monitoring system operation and maintenance	
40 CFR 63.8(c) (1) (i)	No	Routine and predictable SSM	
40 CFR 63.8(c) (1) (ii)	Yes.	SSM not in Startup Shutdown Malfunction Plan	
40 CFR 63.8(c) (1) (iii)	No	Compliance with operation and maintenance requirements	
40 CFR 63.8(c) (2)-(3)	Yes.	Monitoring system installation	
40 CFR 63.8(c) (4)	Yes	Continuous monitoring system (CMS) requirements	Except that subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS).
40 CFR 63.6(f) (2)	No	Methods for determining compliance	
40 CFR 63.6(f) (3)	Yes	Finding of compliance	
40 CFR 63.6(g) (1)-(3)	Yes.	Use of alternate standard	
40 CFR 63.6(h)	Yes	Opacity and visible emission standards	Subpart ZZZZ does not contain opacity or visible emission standards.
40 CFR 63.6(i)	Except that 40 CFR 63.8(e) only applies as specified in 40 CFR 63.6645.	Compliance extension procedures and criteria	
40 CFR 63.6(j)	Yes	Presidential compliance exemption	
40 CFR 63.7(a) (1)-(2)	Yes	Performance test dates	Subpart ZZZZ contains performance test dates at 40 CFR 40 CFR 63.6610, 63.6611, and 63.6612.
40 CFR 63.7(a) (3)	Yes	CAA section 114 authority	
40 CFR 63.7(b) (1)	Yes.	Notification of performance test	Except that 40 CFR 63.7(b) (1) only applies as specified in 40 CFR 63.6645.
40 CFR 63.7(b) (2)	Yes	Notification of rescheduling	Except that 40 CFR 63.7(b) (2) only applies as specified in 40 CFR 63.6645.
40 CFR 63.7(c)	Except that 40 CFR 63.9(b) only applies as specified in 40 CFR 63.6645.	Quality assurance/test plan	Except that 40 CFR 63.7(c) only applies as specified in 40 CFR 63.6645.
40 CFR 63.7(d)	Yes	Testing facilities	

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**7.3 - 40 CFR 63 Subpart A**  
**Requirements (NESHAP)**

General Provision Citation	General Provision Applicable?	Subject of Citation	Explanation (if required)
40 CFR 63.7(e) (1)	Yes	Conditions for conducting performance tests	Subpart ZZZZ specifies conditions for conducting performance tests at 40 CFR 63.6620.
40 CFR 63.7(e) (2)	Yes	Conduct of performance tests and reduction of data	Subpart ZZZZ specifies test methods at 40 CFR 63.6620.
40 CFR 63.7(e) (3)	No	Test run duration	
40 CFR 63.7(e) (4)	Yes	Administrator may require other testing under section 114 of the CAA	
40 CFR 63.7(f)	No	Alternative test method provisions	
40 CFR 63.7(g)	Yes	Performance test data analysis, recordkeeping, and reporting	
40 CFR 63.7(h)	Except that 40 CFR 63.9(g) only applies as specified in 40 CFR 63.6645.	Waiver of tests	
40 CFR 63.8(a) (1)	Yes	Applicability of monitoring requirements	Subpart ZZZZ contains specific requirements for monitoring at 40 CFR 63.6625.
40 CFR 63.8(a) (2)		Performance specifications	
40 CFR 63.8(a) (3)	Yes.	[Reserved]	
40 CFR 63.8(a) (4)	Yes.	Monitoring for control devices	
40 CFR 63.8(b) (1)	Yes.	Monitoring	
40 CFR 63.8(b) (2)-(3)	Yes	Multiple effluents and multiple monitoring systems	
40 CFR 63.8(c) (1)	Yes.	Monitoring system operation and maintenance	
40 CFR 63.8(c) (1) (i)	No	Routine and predictable SSM	
40 CFR 63.8(c) (1) (ii)	Yes.	SSM not in Startup Shutdown Malfunction Plan	
40 CFR 63.8(c) (1) (iii)	No	Compliance with operation and maintenance requirements	
40 CFR 63.8(c) (2)-(3)	Yes.	Monitoring system installation	
40 CFR 63.8(c) (4)	Yes	Continuous monitoring system (CMS) requirements	Except that subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS).
40 CFR 63.8(c) (5)	No	COMS minimum procedures	Subpart ZZZZ does not require COMS.
40 CFR 63.8(c) (6)-(8)	Yes	CMS requirements	Except that subpart ZZZZ does not require COMS.
40 CFR 63.8(d)	Yes.	CMS quality control	
40 CFR 63.8(e)	Yes	CMS performance evaluation	Except for 40 CFR 63.8(e) (5) (ii), which applies to COMS.
	Except that 40 CFR 63.8(e) only applies as specified in 40 CFR 63.6645.		
40 CFR 63.8(f) (1)-(5)	Yes	Alternative monitoring method	Except that 40 CFR 63.8(f) (4) only applies as specified in 40 CFR 63.6645.
40 CFR 63.8(f) (6)	Yes	Alternative to relative accuracy test	Except that 40 CFR 63.8(f) (6) only applies as specified in 40 CFR 63.6645.

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**Section 7 - Other Requirements**  
**7.3 - 40 CFR 63 Subpart A**  
**Requirements (NESHAP)**

General Provision Citation	General Provision Applicable?	Subject of Citation	Explanation (if required)
40 CFR 63.8(g)	Yes	Data reduction	Except that provisions for COMS are not applicable. Averaging periods for demonstrating compliance are specified at 40 CFR 40 CFR 63.6635 and 63.6640.
40 CFR 63.9(a)	Yes.	Applicability and State delegation of notification requirements	
40 CFR 63.9(b) (1)-(5)	Yes	Initial notifications	Except that 40 CFR 63.9(b) (3) is reserved.
	Except that 40 CFR 63.9(b) only applies as specified in 40 CFR 63.6645.		
40 CFR 63.9(c)	Yes	Request for compliance extension	Except that 40 CFR 63.9(c) only applies as specified in 40 CFR 63.6645.
40 CFR 63.9(d)	Yes	Notification of special compliance requirements for new sources	Except that 40 CFR 63.9(d) only applies as specified in 40 CFR 63.6645.
40 CFR 63.9(e)	Yes	Notification of performance test	Except that 40 CFR 63.9(e) only applies as specified in 40 CFR 63.6645.
40 CFR 63.9(f)	No	Notification of visible emission (VE)/opacity test	Subpart ZZZZ does not contain opacity or VE standards.
40 CFR 63.9(g) (1)	Yes	Notification of performance evaluation	Except that 40 CFR 63.9(g) only applies as specified in 40 CFR 63.6645.
40 CFR 63.9(g) (2)	No	Notification of use of COMS data	Subpart ZZZZ does not contain opacity or VE standards.
40 CFR 63.9(g) (3)	Yes	Notification that criterion for alternative to RATA is exceeded	If alternative is in use.
	Except that 40 CFR 63.9(g) only applies as specified in 40 CFR 63.6645.		
40 CFR 63.9(h) (1)-(6)	Yes	Notification of compliance status	Except that notifications for sources using a CEMS are due 30 days after completion of performance evaluations. 40 CFR 63.9(h) (4) is reserved.
			Except that 40 CFR 63.9(h) only applies as specified in 40 CFR 63.6645.
40 CFR 63.9(i)	Yes.	Adjustment of submittal deadlines	
40 CFR 63.9(j)	Yes.	Change in previous information	
40 CFR 63.10(a)	Yes.	Administrative provisions for recordkeeping/reporting	
40 CFR 63.10(b) (1)	Yes	Record retention	Except that the most recent 2 years of data do not have to be retained on site.
40 CFR 63.10(b) (2) (i)-(v)	No.	Records related to SSM	
40 CFR 63.10(b) (2) (vi)-(xi)	Yes.	Records	
40 CFR 63.10(b) (2) (xii)	Yes.	Record when under waiver	

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Section 7 - Other Requirements  
7.3 - 40 CFR 63 Subpart A  
Requirements (NESHAP)

General Provision Citation	General Provision Applicable?	Subject of Citation	Explanation (if required)
40 CFR 63.10(b) (2) (xiii)	Yes	Records when using alternative to RATA	For CO standard if using RATA alternative.
40 CFR 63.10(b) (2) (xiv)	Yes.	Records of supporting documentation	
40 CFR 63.10(b) (3)	Yes.	Records of applicability determination	
40 CFR 63.10(c)	Yes	Additional records for sources using CEMS	Except that 40 CFR 63.10(c) (2)-(4) and (9) are reserved.
40 CFR 63.10(d) (1)	Yes.	General reporting requirements	
40 CFR 63.10(d) (2)	Yes.	Report of performance test results	
40 CFR 63.10(d) (3)	No	Reporting opacity or VE observations	Subpart ZZZZ does not contain opacity or VE standards.
40 CFR 63.10(d) (4)	Yes.	Progress reports	
40 CFR 63.10(d) (5)	No.	Startup, shutdown, and malfunction reports	
40 CFR 63.10(e) (1) and (2) (i)	Yes.	Additional CMS Reports	
40 CFR 63.10(e) (2) (ii)	No	COMS-related report	Subpart ZZZZ does not require COMS.
40 CFR 63.10(e) (3)	Yes.	Excess emission and parameter exceedances reports	Except that 40 CFR 63.10(e) (3) (i) (C) is reserved.
40 CFR 63.10(e) (4)	No	Reporting COMS data	Subpart ZZZZ does not require COMS.
40 CFR 63.10(f)	Yes.	Waiver for recordkeeping/reporting	
40 CFR 63.11	No.	Flares	
40 CFR 63.12	Yes.	State authority and delegations	
40 CFR 63.13	Yes.	Addresses	
40 CFR 63.14	Yes.	Incorporation by reference	
40 CFR 63.15	Yes.	Availability of information	

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**4. 40 CFR 60 Subpart A Requirements (NSPS)**

**a. 40 CFR 60 Subpart A and Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

Pursuant to 40 CFR 60 Subpart A and **Subpart IIII**, 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 60.1	Yes	General Applicability of the General Provisions	
40 CFR 60.2	Yes	Definitions	Additional terms defined in 40 CFR 60.4219
40 CFR 60.3	Yes	Units and Abbreviations	
40 CFR 60.4	Yes	Address	
40 CFR 60.5	Yes	Determination of Construction or Modification	
40 CFR 60.6	Yes	Review of Plans	
40 CFR 60.7	Yes	Notification and Recordkeeping	Except that 40 CFR 60.7 only applies as specified in 40 CFR 60.4214 (a).
40 CFR 60.8	Yes	Performance Tests	Except that 40 CFR 60.8 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder and engines that are not certified.
40 CFR 60.9	Yes	Availability of Information	
40 CFR 60.10	Yes	State Authority	
40 CFR 60.11	No	Compliance with Standards and Maintenance Requirements	Requirements are specified in subpart IIII.
40 CFR 60.12	Yes	Circumvention	
40 CFR 60.13	Yes	Monitoring Requirements	Except that 40 CFR 60.13 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder.
40 CFR 60.14	Yes	Modification	
40 CFR 60.15	Yes	Reconstruction	
40 CFR 60.16	Yes	Priority List	
40 CFR 60.17	Yes	Incorporations by Reference	
40 CFR 60.18	No	General Control Device Requirements and Work Practice Requirements	
40 CFR 60.19	Yes	General Notification and Reporting Requirements	

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**5. Startup Requirements**

**a. Startup Provisions**

Pursuant to 35 IAC 201.149, 201.261, and 201.262, the source is authorized to operate in violation of the applicable requirements (as referenced in Section 4.3.4(a)(i) and (b)(i) of this CAAPP permit) during startup. The source has applied for such authorization in its application, generally describing the efforts that will be used "...to minimize startup emissions, duration of individual starts, and frequency of startups." As provided by 35 IAC 201.265, authorization in this CAAPP permit for excess emissions during startup does not shield the source from enforcement for any violation of applicable emission standard(s) that occurs during startup and only constitutes a prima facie defense to such an enforcement action provided that the source has fully complied with all terms and conditions connected with such authorization.

- i. This authorization does not relieve the source from the continuing obligation to demonstrate that all reasonable efforts are made to minimize startup emissions, duration of individual starts, and frequency of startups.
- ii. The source shall conduct startups in accordance with written startup procedures prepared by the source and maintained at the source, that are specifically developed to minimize startup emissions, duration of individual starts, and frequency of startups.

**b. Monitoring - Recordkeeping**

Pursuant to Section 39.5(7)(b) of the Act, the source shall maintain the following recordkeeping requirements for startup procedures:

- i. A copy of the most recent startup procedures that contains at a minimum:
  - A. Estimate of excess PM or opacity emissions during startup.
  - B. Reasonable steps that will be used to minimize PM or opacity, duration of individual starts, and frequency of startups.
- ii. Records for each individual startup that contains at a minimum:
  - A. Date, time, duration, and description of the startup.
  - B. Whether the most recent startup procedures were performed. If not performed, an explanation why the procedures were not performed.
  - C. An explanation of whether PM or opacity emissions during the startup exceeded the estimates in the startup procedures and whether PM or opacity emissions exceeded any applicable standard or limit not authorized to be violated during startup.

**c. Monitoring - Reporting**

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

i. Prompt Reporting

A Deviation Report shall be submitted to the IEPA, Compliance Section (addresses are included Attachment 3) within five (5) days if a startup exceeded the PM or opacity emissions estimates in the startup procedures or PM or opacity emissions exceeded any applicable standard or limit not authorized to be violated during startup.

ii. Semiannual Reporting

As part of the required Semiannual Monitoring Reports, the source shall submit a startup report including the following at a minimum: a list of the startups including the date, duration, and description of each startup accompanied by any explanations whether the most recent startup procedures were or were not performed and whether normal operation was or was not achieved in the allowed duration.

**6. Malfunction Breakdown Requirements**

**a. Malfunction Breakdown Provisions**

Pursuant to 35 IAC 201.149, 201.161, and 201.262, the source is authorized to continue operation in violation of the applicable requirements (as referenced in Section 4.3.2 (a) and 4.3.2 (b) of the CAAPP permit) during malfunction or breakdown. The source has applied for such authorization in its application, generally describing "such continued operation is necessary to prevent injury to persons or severe damage to equipment; or that such continued operation is required to provide essential services; provided, however, that continued operation solely for the economic benefit of the source shall not be sufficient for granting of permission." As provided by 35 IAC 201.265, authorization in this CAAPP permit for continued operation during malfunction or breakdown does not shield the source from enforcement for any violation of applicable emission standard(s) that occurs during malfunction or breakdown and only constitutes a prima facie defense to such an enforcement action provided that the source has fully complied with all terms and conditions connected with such authorization.

- i. Upon continued operation in violation of the applicable requirements during malfunction or breakdown, the source shall as soon as practical, remove from service and repair the emission unit(s) or undertake other measures as described in the application so that any violation of the applicable requirements cease.
- ii. For continued operation in violation of the applicable requirements during malfunction or breakdown, the time shall be measured from the start of a particular incident and ends when violation of the applicable requirements ceases. The absence of a violation of the applicable requirements for a short period shall not be considered to end the incident if a violation of the applicable requirements resume. In such circumstances, the incident shall be considered to continue until corrective measures are taken so that a violation of the applicable requirements cease or the source takes the emission unit(s) out of service.
- iii. Following notification to the IEPA of continued operation in violation of the applicable requirements during malfunction or breakdown, the source shall comply with all reasonable directives of the IEPA with respect to such incident, pursuant to 35 IAC 201.263.

**b. Monitoring - Recordkeeping**

Pursuant to Section 39.5(7) (b) of the Act and 35 IAC 201.263, the source shall maintain records of continued operation in violation of the applicable requirements during malfunction or breakdown shall include at a minimum:

- i. A malfunction breakdown plan that includes the following at a minimum:
  - A. Estimate of typical opacity during malfunction or breakdown.
  - B. Estimates of typical PM emissions during malfunction or breakdown.
  - C. Reasonable steps that will be taken to minimize opacity and PM emissions, duration, and frequency of malfunction or breakdown.
- ii. Date and duration of the malfunction or breakdown.
- iii. A detailed explanation of the malfunction or breakdown.
- iv. An explanation why the emission unit(s) continued operation.
- v. The measures used to reduce the opacity and PM emissions and the duration of the event.

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- vi. The steps taken to prevent similar malfunctions or breakdowns and reduce their frequency and severity.
- vii. An explanation of whether opacity and PM emissions during malfunction or breakdown were above typical emissions in the malfunction or breakdown procedures and whether opacity and Pm emissions exceeded any applicable requirements.

**c. Monitoring - Reporting**

Pursuant to Sections 39.5(7) (b) and (f) of the Act and 35 IAC 201.263, the source shall provide the following notification and reports to the IEPA, Compliance Section and Regional Field Office (addresses are included in Attachment 3) concerning continued operation in violation of the applicable requirements during malfunction or breakdown:

i. Prompt Reporting

When continued operation in violation of the applicable requirements during malfunction or breakdown:

- A. The source shall notify the IEPA's regional office by telephone as soon as possible during normal working hours, but no later than three (3) days, upon the occurrence of noncompliance due to malfunction or breakdown.
- B. Upon achievement of compliance, the source shall give a written follow-up notice within 15 days to the IEPA, Air Compliance Section and Regional Field Office, providing a detailed explanation of the event, an explanation why continued operation was necessary, the length of time during which operation continued under such conditions, the measures taken by the source to minimize and correct deficiencies with chronology, and when the repairs were completed or when the unit(s) was taken out of service.
- C. If compliance is not achieved within 5 working days of the occurrence, the source shall submit interim status reports to the IEPA, Air Compliance Section and Regional Field Office, within 5 days of the occurrence and every 14 days thereafter, until compliance is achieved. These interim reports shall provide a brief explanation of the nature of the malfunction or breakdown, corrective actions accomplished to date, actions anticipated to occur with schedule, and the expected date on which repairs will be complete or the emission unit(s) will be taken out of service.

ii. Semiannual Reporting

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

- A. A listing of all malfunctions and breakdowns, in chronological order, that includes: the date, time, and duration of each incident; and identity of the affected operation(s) involved in the incident.
- B. Dates of the notices and reports required by Prompt Reporting requirements of 7.5(c) (i) above.
- C. The aggregate duration of all incidents during the reporting period.
- D. If there have been no such incidents during the reporting period, this shall be stated in the report.

**7. 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 7.4(e) 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
7.8.1	4.3	Coal Fired Boilers (#7, #8, #9)	PM

**Table 7.8.1 - CAM Plan**

Emission Unit Section:	4.3	
PSEU Designation:	Coal Fired Boilers (#7, #8, #9)	
Pollutant:	PM	
Indicators:	#1) Continuous Opacity Monitor System (COM) Opacity	#2)
<b>General Criteria</b>		
The Monitoring Approach Used to Measure the Indicators:	A COMS Installed at the outlet of the ESP. Opacity is an appropriate and frequently used surrogate for PM emissions.	
The Indicator Range Which Provides a Reasonable Assurance of Compliance:	Opacity > 30%	
Quality Improvement Plan (QIP) Threshold Levels:	Exceeded indicator range for 5% of a calendar quarterly	
<b>General Criteria</b>		
The Specifications for Obtaining Representative Data:	A COMS Installed at the outlet of the ESP	
Verification Procedures to Confirm the Operational Status of the Monitoring:	John Deere proposes to check the operational status of the monitoring equipment on a daily basis while on coal fuel.	
Quality Assurance and Quality Control (QA/QC) Practices that Ensure the Validity of the Data:	The unit runs a self-calibration check three times a day while on coal fuel. The unit is certified annually by an outside contractor.	
The Monitoring Frequency:	Monitoring is continuous while on coal fuel	
The Data Collection Procedures That Will Be Used:	COMS output will be recorded on a strip chart recorder. In the event of breakdown of the strip chart recorder, John Deere will record stack opacity readings at 15 minute intervals while on coal fuel	
The Data Averaging Period For Determining Whether an Excursion or Exceedance Has Occurred:	6 minute average	

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## 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)	261.20
Sulfur Dioxide	(SO <sub>2</sub> )	11,734.23
Particulate Matter	(PM)	195.68
Nitrogen Oxides	(NO <sub>x</sub> )	989.33
HAP, not included in VOM or PM	(HAP)	373.95
Total		13,554.42

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

<i>Section</i>	<i>Emission Units</i>	<i>Description</i>
4.1	Coating Operations	Combines, headers and service parts are coated. Dip coating and, spray coating are methods used to coat parts. There are many individual coatings units at John Deere. They are grouped together in this section under the name coating operations. Miscellaneous Touch -Up Activities
4.2	Natural Gas Boiler	This natural-gas combustion boiler provides steam to create electricity, process heat and building heat.
4.3	Coal Fired Boilers	The steam generations from the boilers 7, 8 and 9 are used for creating electricity, process heat and building heat. The typical mode of operation is coal firing. Natural gas is routinely fired in the boiler 9. The three boilers are ducted to a common multiclone and Electrostatic Precipitator (ESP). In addition, Boiler#9 can be re-routed to a separate stack during a malfunction event. This separate stack is controlled by a multiclone. Boiler 9 is rated at 176 mmBtu/hr when firing natural gas.
4.4	Gasoline Storage Tank 500 Gallons Horizontal	The 500 gallons horizontal gasoline storage is used to store gasoline for use in plant vehicles.
4.5	Fly Ash Separator with Bag Filter	The fly ash separator baghouse separates transport air and residual ash from a cyclone separator on top of the ash silo. The vacuum blower creates a vacuum through the fly ash separator baghouse, pulling transport air through a cyclone separator on top of the ash silo, which receives ash and transport air from the ESP hoppers and bottom ash from Boilers 7, 8, and 9. The baghouse keep any residual ash within the ash transportation system.

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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

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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 #2</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 #2 5415 North University Peoria, Illinois 61614  Phone No.: 309/693-5462</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

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