



Frank O'Bannon  
Governor

Lori F. Kaplan  
Commissioner

100 North Senate Avenue  
P. O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
www.state.in.us/idem

**FEDERALLY ENFORCEABLE STATE  
OPERATING PERMIT (FESOP)  
OFFICE OF AIR QUALITY**

**Nucor Building Systems  
305 Industrial Parkway  
Waterloo, IN 46793**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

|  |  |
|--|--|
| Operation Permit No.: F033-14157-00035   |  |
| Original signed by Paul Dubenetzky<br>Issued by:<br>Paul Dubenetzky, Branch Chief<br>Office of Air Quality | Issuance Date: April 17, 2002<br><br>Expiration Date: April 17, 2007 |



|                  |   |    |
|------------------|---|----|
| <b>SECTION A</b> | <b>SOURCE SUMMARY</b> .....   | 5  |
| A.1              | General Information [326 IAC 2-8-3(b)]  |    |
| A.2              | Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]        |    |
| A.3              | Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]               |    |
| A.4              | FESOP Applicability [326 IAC 2-8-2]   |    |
| A.5              | Prior Permits Superseded [326 IAC 2-1.1-9.5]  |    |
| <b>SECTION B</b> | <b>GENERAL CONDITIONS</b> .....   | 8  |
| B.1              | Permit No Defense [IC 13]   |    |
| B.2              | Definitions [326 IAC 2-8-1]   |    |
| B.3              | Permit Term [326 IAC 2-8-4(2)] [326 IAC 2-1.1-9.5]                                  |    |
| B.4              | Enforceability [326 IAC 2-8-6]  |    |
| B.5              | Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3 (h)]                  |    |
| B.6              | Severability [326 IAC 2-8-4(4)]   |    |
| B.7              | Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]                        |    |
| B.8              | Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] |    |
| B.9              | Compliance Order Issuance [326 IAC 2-8-5(b)]  |    |
| B.10             | Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]       |    |
| B.11             | Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]        |    |
| B.12             | Annual Compliance Certification [326 IAC 2-8-5(a)(1)]                               |    |
| B.13             | Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]  |    |
| B.14             | Emergency Provisions [326 IAC 2-8-12]   |    |
| B.15             | Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]        |    |
| B.16             | Permit Modification, Reopening, Revocation and Reissuance, or Termination           |    |
| B.17             | Permit Renewal [326 IAC 2-8-3(h)]   |    |
| B.18             | Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]                     |    |
| B.19             | Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]                          |    |
| B.20             | Permit Revision Requirement [326 IAC 2-8-11.1]                                      |    |
| B.21             | Inspection and Entry [326 IAC 2-8-5(a)(2)] [I13-14-2-2]                             |    |
| B.22             | Transfer of Ownership or Operation [326 IAC 2-8-10]                                 |    |
| B.23             | Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]                              |    |
| <b>SECTION C</b> | <b>SOURCE OPERATION CONDITIONS</b> .....  | 19 |
|                  | <b>Emission Limitations and Standards [326 IAC 2-8-4(1)]</b>                        |    |
| C.1              | Overall Source Limit [326 IAC 2-8]  |    |
| C.2              | Opacity [326 IAC 5-1]   |    |
| C.3              | Open Burning [326 IAC 4-1][IC 13-17-9]  |    |
| C.4              | Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]                                       |    |
| C.5              | Fugitive Dust Emissions [326 IAC 6-4]   |    |
| C.6              | Operation of Equipment [326 IAC 2-8-5(a)(4)]  |    |
| C.7              | Stack Height [326 IAC 1-7]  |    |
| C.8              | Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]            |    |
|                  | <b>Testing Requirements [326 IAC 2-8-4(3)]</b>                                      |    |
| C.9              | Performance Testing [326 IAC 3-6]   |    |
|                  | <b>Compliance Requirements [326 IAC 2-1.1-11]</b>                                   |    |
| C.10             | Compliance Requirements [326 IAC 2-1.1-11]  |    |

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]
- C.12 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

**Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5]**

- C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]
- C.14 Compliance Response Plan - Preparation, Implementation, Records, and Reports
- C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

- C.16 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]
- C.17 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

**Stratospheric Ozone Protection**

- C.18 Compliance with 40 CFR 82 and 326 IAC 22-1

**SECTION D.1 FACILITY OPERATION CONDITIONS**

**Four (4) Surface Coating Facilities (ID-C, ID-C1, ID-D, and Flange Brace Flowcoater) . . . 27**

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]
- D.1.2 Volatile Organic Compounds (VOC) [326 IAC 2-8]
- D.1.3 Hazardous Air Pollutants (HAPs) [326 IAC 2-8]
- D.1.4 Particulate Matter (PM) [326 IAC 6-3-2]
- D.1.5 PM<sub>10</sub> [326 IAC 2-8-4]
- D.1.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.1.7 Volatile Organic Compounds (VOC)
- D.1.8 VOC and HAP Emissions

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.1.9 Particulate Matter (PM)
- D.1.10 Monitoring

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.1.11 Record Keeping Requirements
- D.1.12 Reporting Requirements

**SECTION D.2 FACILITY OPERATION CONDITIONS**

**Insignificant Activities . . . . . 31**

- Boilers**
- Degreasing Operations**
- Gasoline Dispensing Facilities**
- Process Weight Activities**

**Certification Form . . . . . 33**

**Emergency Occurrence Form . . . . . 34**

|  |           |
|--|-----------|
| <b>Quarterly Report Form for VOC</b> .....                             | <b>36</b> |
| <b>Quarterly Report Form for HAPs</b> .....                            | <b>37</b> |
| <b>Quarterly Deviation and Compliance Monitoring Report Form</b> ..... | <b>38</b> |

## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-8-3(b)]

---

The Permittee owns and operates a prefabricated metal building and components assembly and coating plant.

|                         |  |
|-------------------------|--|
| Authorized Individual:  | Harry R. Lowe, Vice President & General Manager  |
| Source Address:         | 305 Industrial Parkway, Waterloo, IN 46793   |
| Mailing Address:        | P.O. Box 70, 305 Industrial Parkway, Waterloo, IN 46793  |
| SIC Code:               | 3448   |
| County Location:        | DeKalb   |
| Source Location Status: | Attainment for all criteria pollutants   |
| Source Status:          | Federally Enforceable State Operating Permit (FESOP)<br>Minor Source, under PSD Rules;<br>Minor Source, Section 112 of the Clean Air Act |

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

---

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) Built Up Line Paint Booth, installed in 1987, rated at 9.1 gallons liquid paint per hour utilizing an one (1) gun low pressure air atomization spray application system all identified as ID-C, with particulate matter as over spray controlled by dry filter exhausting at two (2) stacks identified as 1A and 1B;
- (b) One (1) Built Up Line Auxiliary Paint Booth, installed in 1987, rated at 9.1 gallons liquid paint per hour utilizing an one (1) gun low pressure air atomization spray application system all identified as ID-C1, with particulate matter as over spray controlled by dry filter exhausting at two (2) stacks identified as 4A and 4B;
- (c) One (1) Purlin Line Vac-u-coater, installed in 1987, rated at 9.5 gallons liquid paint per hour utilizing one (1) flowcoat paint application method and identified as ID-D, exhausting at one (1) stack identified as 2, with separate one (1) rod flowcoater and one (1) small parts/plates dip coater; and
- (d) One (1) flange brace flowcoater, installed in 1999, having a rating of seven (7) tons of steel per week, also exhausting through stack 2.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units (Btu) per hour. This includes:
  - (1) one (1) Purlin Line flowcoating drying oven rated at 2 million Btu per hour;
  - (2) fifty-three (53) unit space heaters individually rated at 104,000 Btu per hour (5,512,000 Btu per hour, total rating); and
  - (3) three (3) boilers individually rated at 330,000 Btu per hour (990,000 Btu per hour, total rating)  
  
all installed in 1987; and
  - (4) two (2) natural gas-fired air handler heating units individually rated at 5.8 million Btu per hour installed in 1999.
- (b) a gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons;
- (c) a petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month;
- (d) VOC and HAP storage containers with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons;
- (e) machining where an aqueous cutting coolant continuously floods the machining interface;
- (f) the following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment and welding equipment, including:
  - (1) one (1) submerged arc type welding station; and
  - (2) two (2) metal inert gas type welding stations; and
- (g) four (4) cold cleaning type parts degreasers, two installed in 1987 and two installed in 2001; and
- (h) two (2) airless type spray guns used for the coating of large metal parts in the area of booths ID-C, ID-C1 and ID-D, exhausting inside the production building.

A.4 FESOP Applicability [326 IAC 2-8-2]

---

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

---

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised, or

(3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this permit.

## **SECTION B GENERAL CONDITIONS**

### **B.1 Permit No Defense [IC 13]**

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

### **B.2 Definitions [326 IAC 2-8-1]**

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

### **B.3 Permit Term [326 IAC 2-8-4(2)] [326 IAC 2-1.1-9.5]**

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

### **B.4 Enforceability [326 IAC 2-8-6]**

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### **B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]**

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

### **B.6 Severability [326 IAC 2-8-4(4)]**

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### **B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]**

This permit does not convey any property rights of any sort, or any exclusive privilege.

### **B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]**

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, 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. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality.[326 IAC 2-8-4(5)(E)]
- (c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ, may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
  - (1) Enforcement action;
  - (2) Permit termination, revocation and reissuance, or modification; and
  - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

- (b) The Permittee shall implement the PMPs as necessary to ensure that maintenance practices do not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

**B.14 Emergency Provisions [326 IAC 2-8-12]**

---

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ and the IDEM Northern Regional Office, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,  
Telephone No.: 317-233-5674 (ask for Compliance Section)  
Facsimile No.: 317-233-5967

Telephone No.: 812-436-2570 (Northern Regional Office)  
Facsimile No.: 812-436-2572 (Northern Regional Office)

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
  - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
  - (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
  - (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination  
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

---

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

**B.17 Permit Renewal [326 IAC 2-8-3(h)]**

---

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, IN 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

- (1) A timely renewal application is one that is:

- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

- (2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]

If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any approval required by 326 IAC 2-8-11.1 has been obtained;

(3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:
  - (1) A brief description of the change within the source;
  - (2) The date on which the change will occur;
  - (3) Any change in emissions; and
  - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(c)]  
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

**B.20 Permit Revision Requirement [326 IAC 2-8-11.1]**

---

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

**B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]**

---

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

#### C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable;
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

#### C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

---

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

---

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]

---

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.7 Stack Height [326 IAC 1-7]

---

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

---

- (a) Notification requirements apply to each owner or operator. For renovation projects, if the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

### **Testing Requirements [326 IAC 2-8-4(3)]**

#### **C.9 Performance Testing [326 IAC 3-6]**

---

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ, not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

**Compliance Requirements [326 IAC 2-1.1-11]**

**C.10 Compliance Requirements [326 IAC 2-1.1-11]**

---

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]**

---

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

**C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

---

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

**Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]**

---

If a regulated substance, subject to 40 CFR 68, is present in a process at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP).

All documents submitted pursuant to this condition shall include the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

C.14 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]

---

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ, upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:
- (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
  - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
- (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
  - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
  - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
  - (4) Failure to take reasonable response steps shall constitute a violation of the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.

- (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
  - (3) An automatic measurement was taken when the process was not operating.
  - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B - Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]  
[326 IAC 2-8-5]

---

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ, that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ, may extend the retesting deadline.
- (c) IDEM, OAQ, reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

### **Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

#### **C.16 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]**

---

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

#### **C.17 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]**

---

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years.

### **Stratospheric Ozone Protection**

#### **C.18 Compliance with 40 CFR 82 and 326 IAC 22-1**

---

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

## SECTION D.1 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

- (a) One (1) Built Up Line Paint Booth, installed in 1987, rated at 9.1 gallons liquid paint per hour utilizing an one (1) gun low pressure air atomization spray application system all identified as ID-C, with particulate matter as over spray controlled by dry filter exhausting at two (2) stacks identified as 1A and 1B;
- (b) One (1) Built Up Line Auxiliary Paint Booth, installed in 1987, rated at 9.1 gallons liquid paint per hour utilizing an one (1) gun low pressure air atomization spray application system all identified as ID-C1, with particulate matter as over spray controlled by dry filter exhausting at two (2) stacks identified as 4A and 4B;
- (c) one (1) Purlin Line Vac-u-coater, installed in 1987, rated at 9.5 gallons liquid paint per hour utilizing one (1) flowcoat paint application method and identified as ID-D, exhausting at one (1) stack identified as 2, with separate one (1) rod flowcoater and one (1) small parts/plates dip coater; and
- (d) one (1) flange brace flowcoater, installed in 1999, having a rating of seven (7) tons of steel per week, also exhausting through stack 2.

and the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (h) two (2) airless type spray guns used for the coating of large metal parts in the area of booths ID-C, ID-C1 and ID-D, exhausting inside the production building.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coatings applied to the metal parts and products at coating facilities ID-C, ID-C1, ID-D, the flange brace flowcoater, and the two (2) spray guns used for the coating of large metal parts shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for air dried and forced warm air dried coatings.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

#### D.1.2 Volatile Organic Compounds (VOC) [326 IAC 2-8]

The total input usage of volatile organic compounds (VOC) at the three (3) painting facilities (ID-C, ID-C1, and ID-D), the flange brace flowcoater, and the two (2) spray guns used for the coating of large metal parts, including VOC solvents and diluents, shall be less than 98.2 tons per twelve (12) consecutive month period. Compliance with this condition shall limit the source-wide potential to emit VOC to less than 100 tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-7 shall not apply to the source.

D.1.3 Hazardous Air Pollutants (HAPs) [326 IAC 2-8]

The source shall comply as follows:

- (a) The total input usage of any single hazardous air pollutant (HAP) at the three (3) painting facilities (ID-C, ID-C1, and ID-D), the flange brace flowcoater, and the two (2) spray guns used for the coating of large metal parts, including solvents and diluents, shall be less than 10 tons per 12 consecutive month period. Compliance with this condition shall limit the source-wide potential to emit a single HAP to less than 10 tons per twelve (12) consecutive month period.
- (b) The total input usage of the combined HAPs at the three (3) painting facilities (ID-C, ID-C1, and ID-D), the flange brace flowcoater, and the two (2) spray guns used for the coating of large metal parts, including solvents and diluents, shall be less than 24.7 tons per twelve (12) consecutive month period. Compliance with this condition shall limit the source-wide potential to emit total HAPs to less than 25 tons per 12 consecutive month period.

Compliance with these limitations shall make the requirements of 326 IAC 2-7 (Part 70) not applicable to the source.

D.1.4 Particulate Matter (PM) [326 IAC 6-3-2]

The particulate matter as overspray from coating booths ID-C and ID-C1 each shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

or

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour.}$$

D.1.5 PM<sub>10</sub> [326 IAC 2-8-4]

Any change or modification which may increase potential to emit PM<sub>10</sub> from the entire source to one hundred (100) tons per year or more shall require approval from IDEM, OAQ, prior to making the change.

D.1.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for facilities ID-C and ID-C1 and their control devices.

## Compliance Determination Requirements

### D.1.7 Volatile Organic Compounds (VOC)

Compliance with the VOC content and usage limitations contained in Conditions D.1.1 and D.1.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer.

### D.1.8 VOC and HAP Emissions

Compliance with Conditions D.1.2 and D.1.3 shall be demonstrated within 30 days of the end of each month based on the total volatile organic compound, single HAP and combined HAP usage for the most recent twelve (12) month period.

## Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

### D.1.9 Particulate Matter (PM)

In order to comply with Condition D.1.4, the dry filters for PM control shall be in operation at all times when the two (2) coating facilities ID-C and ID-C1 are in operation.

### D.1.10 Monitoring

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the ID-C and ID-C1 surface coating booth stacks (1A and 1B; and 4A and 4B, respectively) while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever daily inspections indicate problems with filter placement, integrity or loading; or weekly observations indicate an abnormal emissions condition exists, which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
- (b) Monthly inspections shall be performed of the coating emissions from the stacks and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever monthly inspections indicated a noticeable change in overspray emission, or evidence of overspray emission is observed, which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
- (c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

## **Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

### **D.1.11 Record Keeping Requirements**

---

- (a) To document compliance with Conditions D.1.1, D.1.2 and D.1.3, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC emission and usage limits established in Conditions D.1.1 and D.1.2, and the HAP usage limits established in Condition D.1.3:
  - (1) The amount and VOC and HAP content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
  - (2) The total VOC usage for each month and the weight of VOCs emitted for each compliance period; and
  - (3) The total HAP usage for each month and the weight of individual and total HAPs emitted for each compliance period.
- (b) To document compliance with Conditions D.1.9 and D.1.10, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

### **D.1.12 Reporting Requirements**

---

A quarterly summary of the information to document compliance with Conditions D.1.2 and D.1.3 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

## SECTION D.2 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units (Btu) per hour. This includes:
  - (3) three (3) boilers individually rated at 330,000 Btu per hour (990,000 Btu per hour, total rating) installed in 1987;
- (b) a gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons;
- (f) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment and welding equipment, including:
  - (1) one (1) submerged arc type welding station; and
  - (2) two (2) metal inert gas type welding stations; and
- (g) four (4) cold cleaning type parts degreasers, two installed in 1987 and two installed in 2001.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.2.1 Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), PM emissions from each of the boilers shall be limited to 0.6 pounds per MMBtu heat input determined as the lesser of the value  $Pt$  computed with the following formula:

$$Pt = \frac{1.09}{Q^{0.26}}$$

where:  $Pt$  = pounds of PM emitted per MMBtu heat input (lb/MMBtu)  
 $Q$  = total source operating capacity rating (MMBtu/hr)

or six tenths (0.6) pounds per MMBtu heat input for boilers with a heat input rate ( $Q$ ) of less than ten (10) MMBtu per hour.

**D.2.2 Particulate Matter (PM) [326 IAC 6-3-2]**

---

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour. This includes the following equipment, as insignificant activities, related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment and welding equipment, including the one (1) submerged arc type welding station and two (2) metal inert gas type welding stations.

**D.2.3 Volatile Organic Compounds (VOC)**

---

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the owner or operator shall ensure that the following requirements are met for each of the four (4) cold cleaning type parts degreasers:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

**D.2.4 Volatile Organic Compounds (VOC) [326 IAC 8-4-6, 326 IAC 8-4-9]**

---

Any change or modification which may increase monthly gasoline throughput to ten thousand (10,000) gallons or more from the gasoline fuel transfer and dispensing operation shall require approval from IDEM, OAQ, prior to making the change.

**Compliance Determination Requirement**

There are no specific compliance determination requirements applicable to these facilities.

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

There are no specific compliance monitoring requirements applicable to these facilities.

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

**D.2.5 Record Keeping Requirement**

---

To document compliance with Condition D.2.4, the Permittee shall maintain records of total monthly gasoline throughput at the transfer and dispensing station. These records shall be maintained in accordance with Section C - General Record Keeping Requirements.

There are no specific reporting requirements applicable to these facilities.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
CERTIFICATION**

Source Name: Nucor Building Systems  
Source Address: 305 Industrial Parkway, Waterloo, IN 46793  
Mailing Address: P.O. Box 70, 305 Industrial Parkway, Waterloo, IN 46793  
FESOP No.: F033-14157-00035

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) \_\_\_\_\_
- 9 Report (specify) \_\_\_\_\_
- 9 Notification (specify) \_\_\_\_\_
- 9 Affidavit (specify) \_\_\_\_\_
- 9 Other (specify) \_\_\_\_\_

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
Phone: 317-233-5674  
Fax: 317-233-5967**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
EMERGENCY OCCURRENCE REPORT**

Source Name: Nucor Building Systems  
Source Address: 305 Industrial Parkway, Waterloo, IN 46793  
Mailing Address: P.O. Box 70, 305 Industrial Parkway, Waterloo, IN 46793  
FESOP No.: F033-14157-00035

**This form consists of 2 pages**

**Page 1 of 2**

**9** This is an emergency as defined in 326 IAC 2-7-1(12)  
CThe Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and  
CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

**Page 2 of 2**

|   |
|---|
| Date/Time Emergency started:  |
| Date/Time Emergency was corrected:  |
| Was the facility being properly operated at the time of the emergency?    Y    N<br>Describe:   |
| Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:   |
| Estimated amount of pollutant(s) emitted during emergency:  |
| Describe the steps taken to mitigate the problem:   |
| Describe the corrective actions/response steps taken:   |
| Describe the measures taken to minimize emissions:  |
| If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value: |

Form Completed by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**FESOP Quarterly Report**

Source Name: Nucor Building Systems  
Source Address: 305 Industrial Parkway, Waterloo, Indiana 46793  
FESOP No.: F033-14157-00035  
Facility: Built Up Line Paint Booth (ID-C), Built Up Line Auxiliary Paint Booth (ID-C1), Purlin Line Vac-u-coater with Separate Rod Coater and Small Parts Coater (ID-D), one (1) flange brace flowcoater, and two (2) spray guns used for the coating of large metal parts  
Parameter: volatile organic compounds (VOC), including VOC solvents and diluents  
Limit: total input usage of volatile organic compounds (VOC), including VOC solvents and diluents, shall be less than 98.2 tons per twelve (12) consecutive month period

YEAR: \_\_\_\_\_

| Month | Column 1                          | Column 2                                   | Column 1 + Column 2      |
|-------|-----------------------------------|--|--------------------------|
|       | Total VOC Usage This Month (tons) | Total VOC Usage Previous 11 Months (total) | 12 Month Total VOC Usage |
|       |                                   |  |                          |
|       |                                   |  |                          |
|       |                                   |  |                          |

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title/Position: \_\_\_\_\_

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

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

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE DATA SECTION**

**FESOP Quarterly Report**

Source Name: Nucor Building Systems  
 Source Address: 305 Industrial Parkway, Waterloo, Indiana 46793  
 FESOP No.: F033-14157-00035  
 Facility: Built Up Line Paint Booth (ID-C), Built Up Line Auxiliary Paint Booth (ID-C1), Purlin Line Vac-u-coater with Separate Rod Coater and Small Parts Coater (ID-D), one (1) flange brace flowcoater, and two (2) spray guns used for the coating of large metal parts  
 Parameter: single and combined hazardous air pollutants (HAPs)  
 Limit: (a) total input usage of any single hazardous air pollutant (HAP), including solvents and diluents, shall be less than 10 tons per 12 consecutive month period  
 (b) total input usage of the combined HAPs, including solvents and diluents, shall be less than 24.7 tons per twelve (12) consecutive month period

YEAR: \_\_\_\_\_

| Month | Single HAP Usage This Month (tons) | Single HAP Usage Previous 11 months (tons) | 12 Month Total Single HAP Usage (tons) | Combination HAPs Usage this month (tons) | Combination HAPs Usage Previous 11 months (tons) | 12 Month Total Combination HAPs Usage (tons) |
|-------|------------------------------------|--|--|--|--|--|
|       |                                    |  |  |  |  |  |
|       |                                    |  |  |  |  |  |
|       |                                    |  |  |  |  |  |

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
 Title/Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Nucor Building Systems  
 Source Address: 305 Industrial Parkway, Waterloo, IN 46793  
 Mailing Address: P.O. Box 70, 305 Industrial Parkway, Waterloo, IN 46793  
 FESOP No.: F033-14157-00035

**Months:** \_\_\_\_\_ **to** \_\_\_\_\_ **Year:** \_\_\_\_\_

|   |                                      |
|---|--------------------------------------|
| <p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p> |                                      |
| <p>9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>  |                                      |
| <p>9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>  |                                      |
| <p><b>Permit Requirement</b> (specify permit condition #)</p>   |                                      |
| <p><b>Date of Deviation:</b></p>  | <p><b>Duration of Deviation:</b></p> |
| <p><b>Number of Deviations:</b></p>   |                                      |
| <p><b>Probable Cause of Deviation:</b></p>  |                                      |
| <p><b>Response Steps Taken:</b></p>   |                                      |
| <p><b>Permit Requirement</b> (specify permit condition #)</p>   |                                      |
| <p><b>Date of Deviation:</b></p>  | <p><b>Duration of Deviation:</b></p> |
| <p><b>Number of Deviations:</b></p>   |                                      |
| <p><b>Probable Cause of Deviation:</b></p>  |                                      |
| <p><b>Response Steps Taken:</b></p>   |                                      |

|  |                               |
|--|-------------------------------|
| <b>Permit Requirement</b> (specify permit condition #) |                               |
| <b>Date of Deviation:</b>                              | <b>Duration of Deviation:</b> |
| <b>Number of Deviations:</b>                           |                               |
| <b>Probable Cause of Deviation:</b>                    |                               |
| <b>Response Steps Taken:</b>                           |                               |
| <b>Permit Requirement</b> (specify permit condition #) |                               |
| <b>Date of Deviation:</b>                              | <b>Duration of Deviation:</b> |
| <b>Number of Deviations:</b>                           |                               |
| <b>Probable Cause of Deviation:</b>                    |                               |
| <b>Response Steps Taken:</b>                           |                               |
| <b>Permit Requirement</b> (specify permit condition #) |                               |
| <b>Date of Deviation:</b>                              | <b>Duration of Deviation:</b> |
| <b>Number of Deviations:</b>                           |                               |
| <b>Probable Cause of Deviation:</b>                    |                               |
| <b>Response Steps Taken:</b>                           |                               |

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

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

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

## Indiana Department of Environmental Management Office of Air Quality

### Addendum to the Technical Support Document for a Federally Enforceable State Operating Permit (FESOP) Renewal

#### Source Background and Description

|                              |   |
|------------------------------|---|
| <b>Source Name:</b>          | <b>Nucor Building Systems</b>                     |
| <b>Source Location:</b>      | <b>305 Industrial Parkway, Waterloo, IN 46793</b> |
| <b>County:</b>               | <b>DeKalb</b>                                     |
| <b>SIC Code:</b>             | <b>3448</b>                                       |
| <b>Operation Permit No.:</b> | <b>F033-5452-00035</b>                            |
| <b>Permit Reviewer:</b>      | <b>Michael Hirtler/EVP</b>                        |

On November 8, 2001, the Office of Air Quality (OAQ) had a notice published in the Auburn Evening Star, Auburn, Indiana, stating that Nucor Building Systems had applied for a Federally Enforceable State Operating Permit (FESOP) Renewal to operate a prefabricated metal building and components assembly and coating plant with control. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On December 1, 2001, OAQ received comments from Nucor Building Systems on the proposed FESOP Renewal. The summary of the comments and related responses is as follows, with any changes made to the permit shown in bold and deleted permit language shown with a line through it:

#### Comment 1:

##### A.5 *Prior Permit Conditions*

Condition A.5(b) appears to be based on 326 IAC 2-8-5(b) which is provided in Condition B.9. Accordingly, Nucor Building Systems requests that A.5(b) be deleted.

#### Response to Comment 1:

Condition A.5 has been updated to incorporate the new Article 2 rule 326 IAC 2-1.1-9.5, that was adopted on October 3, 2001 and that became effective on January 19th, 2002. For more information about this rulemaking, refer to the October 2001 Air Pollution Control Board Packet which can be found on the internet at <http://www.state.in.us/idem/air/rules/apcb/packets/index.html>. The rule revisions were published in the February 1, 2002 Indiana Register which can be found on the internet at <http://www.in.gov/legislative/register/index-25.html>. The citation of new rule 326 IAC 2-1.1-9.5 is also added to Condition B.3 (Permit Term) without replication herein.

##### ~~A.5 — Prior Permit Conditions~~

~~(a) — This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.~~

- ~~(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is re-issued.~~

**A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either**
- (1) incorporated as originally stated,**
  - (2) revised, or**
  - (3) deleted**
- by this permit.**
- (b) All previous registrations and permits are superseded by this permit.**

**Comment 2:**

*B.5 Termination of Right to Operate*

Nucor Building Systems suggests that the heading, "Termination of Right to Operate" be replaced with the more appropriate heading, "Permit Expiration" or "Permit Expiration and Renewal."

**Response to Comment 2:**

Although the heading at 326 IAC 2-8-9 is *Permit Expiration*, the rule addresses the termination of the source's right to operate unless a timely and complete renewal application has been submitted accordingly. As such, OAQ has decided that the appropriate title for the condition, which is descriptive only and does not affect the requirements of the rule, is the current *Termination of Right to Operate*. There is no change to this condition due to this comment.

**Comment 3:**

*B.10 Compliance with Permit Conditions*

The reference in Condition B.10(c) should be Condition B.14.

**Response to Comment 3:**

Condition B.14 is an accurate cross-reference for Condition B.10(c). However, OAQ has decided to utilize more general language to minimize the potential for referencing inconsistencies should a future revision to the permit be made. The condition is revised as follows:

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in ~~condition~~ **Section B**, Emergency Provisions.

**Comment 4:**

*B.12 Annual Compliance Certification*

For purposes of clarification, Nucor Building Systems requests that “notification” be replaced with “compliance certification report” in the last sentence of Condition B.12(c).

**Response to Comment 4:**

Condition B.12(c) is revised to provide for greater clarity and consistency with language used in other conditions of the permit as follows:

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (c) The annual compliance certification report shall include the following:
- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may require to determine the compliance status of the source.

The ~~notification which shall be submitted~~ **submittal** by the Permittee does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

**Comment 5:**

*B.13 Preventive Maintenance Plan*

In Condition B.13(b), it is unclear how Nucor Building Systems shall “**implement**” the PMPs as necessary to ensure that **failure to implement** the PMP does not cause or contribute to a violation of any emissions limitation.” It appears that “implementing” and “failing to implement” are mutually exclusive actions. 326 IAC 1-6-3 simply requires that, as deemed necessary by the commissioner, any person operating a facility “prepare and maintain a preventive maintenance plan.” Furthermore, 326 IAC 2-8-4(9) requires a FESOP provision that requires the source to do all of the following:

- (A) Maintain on-site the preventive maintenance plan required under section 3(c)(6) of this rule.

- (B) Implement the preventive maintenance plan.
- (C) Forward to the department upon request the preventive maintenance plan.

Pursuant to 326 IAC 2-8-4(1)(A), “the FESOP shall specify and reference the origin of and authority for each term or condition and identify any difference in form as compared to the applicable requirement upon which the term or condition is based.” Because the cited authority does not contain the ambiguous “failure to implement” language and Condition B.13 does not identify any difference in form as compared to the applicable requirement upon which the term or condition is based, Nucor Building Systems requests the following revisions:

- (a) First, to remain consistent with 326 IAC 1-6-3, Nucor Building Systems suggests that “maintain and implement” be replaced with “prepare and maintain” in the first sentence of Condition B.13(a).
- (b) Second, Nucor Building Systems presumes that the purpose of draft Condition B.13(b) is to require Nucor Building Systems to implement the PMPs to ensure that maintenance practices do not cause or contribute to a violation of any limitation on emissions or potential to emit. However, the underlying authority, 326 IAC 2-8-4(9)(B), simply requires that Nucor Building Systems “[i]mplement the preventive maintenance plan.” Accordingly, to clarify the action required by draft Condition B.13(b), Nucor Building Systems requests revising the condition as follows:
  - (b) *The Permittee shall implement the PMPs as necessary to ensure that maintenance practices do not cause or contribute to a violation of any limitation on emissions or potential to emit.*

Alternatively, Nucor Building Systems suggests that Condition B.13(b) simply be deleted and replace “maintain and implement” with “prepare, implement and maintain” in the first sentence of Condition B.13(a). As revised, Condition B.13(a) would then prescribe the requirements set forth in 326 IAC 1-6-3 and 326 IAC 2-8-4(9)(B) in one condition.

In Condition B.13(c), Nucor Building Systems understands that any IDEM, OAQ change to its PMP is appealable as otherwise provided by State law. Nucor expressly does not waive any right to challenge any IDEM, OAQ decision on the adequacy of its maintenance practices.

#### **Response to Comment 5:**

In response to Comment 5, paragraph (a), this source has already obtained initial FESOP approval No. F033-5452-00035 and should have prepared its PMP as required under that initial approval. While the language of Condition B.13 is not exact with respect to that found at 326 IAC 1-6-3, the intent is clear and, as a renewal, the use of the term “prepare” is obsolete. The source must continue to maintain the PMP that has been established previously, and implement the plan as required pursuant to 326 IAC 2-8-4(9)(A) and (B). There is no change to the condition due to this comment.

In response to Comment 5, paragraph (b), OAQ presently has no plan to change the general evolved form of Condition B.13. However, B.13(b) is revised as requested to eliminate the unintended use of double-negative terminology. This change provides for greater clarity and does not affect the meaning of the condition.

**B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]**

---

- (b) The Permittee shall implement the PMPs as necessary to ensure that ~~failure to implement a PMP does~~ **maintenance practices do** not cause or contribute to a violation of any limitation on emissions or potential to emit.

**Comment 6:**

**B.14 Emergency Provisions**

Nucor Building Systems questions the requirement in Condition B.14(b)(4) requiring notification to IDEM, OAQ **and** the IDEM Northern Regional Office. Pursuant to 326 IAC 2-8-12(b)(4), a Permittee must simply notify the “commissioner” when there is an emergency lasting one (1) hour or more. As explained in our comment on Condition B.13, because the cited authority does not require notification of the IDEM Northern Regional Office and Condition B.13 does not identify any difference in form as compared to the applicable requirement upon which the term or condition is based, Nucor Building Systems requests that the additional requirement to notify the IDEM Northern Regional Office be deleted.

The last sentence in Condition B.14(b)(4) essentially repeats the provision in Condition B.14(f). Accordingly, Nucor Building Systems requests that this sentence be deleted.

**Response to Comment 6:**

The requirement to notify the IDEM Northern Indiana Regional Office (NRO) is retained at Condition B.14 (b)(4). Pursuant to 326 IAC 2-8-12 (Emergency Provisions), the source is required to notify the Commissioner when the requirements of the rule apply. IDEM, acting on behalf of the Commissioner, has decided that the regional office, as a branch office of IDEM, must be notified along with the central office when the requirements of the rule (i.e., Condition B.14) apply. The NRO is the primary contact with the public. The OAQ maintains overall compliance implementation.

The statement at the end of Condition B.14(b)(4), and Condition B.14(f) are redundant. Condition B.14(f) is retained herein, and the statement at the end of B.14(b)(4) is stricken as follows:

**B.14 Emergency Provisions [326 IAC 2-8-12]**

---

- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ and the IDEM Northern Regional Office, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,  
Telephone No.: 317-233-5674 (ask for Compliance Section)  
Facsimile No.: 317-233-5967

Telephone No.: 812-436-2570 (Northern Regional Office)  
Facsimile No.: 812-436-2572 (Northern Regional Office)

~~Failure to notify IDEM, OAQ, and the Northern Regional office, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]~~

**Comment 7:**

The requirement prescribed in Condition B.19(a)(2) is not contained in the cited authority. Moreover, because the operational flexibility provisions are designed to allow certain changes "without a prior permit revision," the permit revision requirements of 326 IAC 2-8-11.1 are irrelevant. Accordingly, Nucor Building Systems requests that Condition B.19(a)(2) be deleted.

**Response to Comment 7:**

326 IAC 2-8-15(a)(2) specifies that any change that does not result in emissions which exceed the emissions allowable under the permit does not need prior permit revision, provided that the other requirements of 326 IAC 2-8-15 are satisfied. Condition B.19(a)(2) indicates that approvals required by 326 IAC 2-8-11.1 must be obtained, and such is required for modifications to existing sources when the potential to emit any regulated pollutant equals or exceeds the amounts specified by 326 IAC 2-1.1-3. The intent of Condition B.19(a) is to specify when prior permit revisions are not required, which would include changes already approved pursuant to 326 IAC 2-8-11.1. This rule citation will be added to the title of the condition to clarify that the requirement of Condition B.19(a)(2) is consistent with 326 IAC 2-8-15 and 326 IAC 2-8-11.1 as follows:

B.19 Operational Flexibility [326 IAC 2-8-15][**326 IAC 2-8-11.1**]

---

**Comment 8:**

*B.22 Transfer of Ownership or Operational Control:*

In Condition B.22(c), the reference should be to 326 IAC 2-8-10(b)(3), not 326 IAC 2-8-11(b)(3).

**Response to Comment 8:**

Condition B.22 is revised to correct the citation as follows:

**B.22** Transfer of Ownership or Operational Control [326 IAC 2-8-10]

---

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-~~11~~10(b)(3)]

**Comment 9:**

**C.8** *Asbestos Abatement Projects:*

As currently drafted, Condition C.8 would be more appropriately entitled “Asbestos Demolition and Renovation Activities.”

For purposes of clarification and to remain consistent with the regulations, Nucor Building Systems requests that “of a demolition or renovation activity” be added to the end of the first sentence of Condition C.8(a). In addition, “In a facility being renovated,” should be added to the beginning of the second sentence of Condition C.8(a).

In the second sentence of Condition C.8(e), the cited authority should be 326 IAC 14-10-1(a)(2), not 326 IAC 14-10-4.

However, this facility believes that no asbestos containing building materials are present.

**Response to Comment 9:**

The OAQ includes all applicable requirements contained in Title 326 of the Indiana Air Code (IAC) in the FESOPs. Condition C.8 “Asbestos Abatement Projects” is applicable to every source located in Indiana, regardless of operation or potential emissions. These requirements are summarized in the condition and presented in full detail at the citations stated. While OAQ presently has no plans to change the title of the condition as requested, other changes are made to the condition that include the addition of clarifying language to C.8(a) to be consistent with 326 IAC 14-10; revision to C.8(d) clarifying that the asbestos notification does not require a certification by the authorized individual, but it does need to be certified by the owner or operator; and revising C.8(e) to reflect 326 IAC 14-10-1 as the appropriate rule for determining applicability to the emission control requirements of 326 IAC 14-10-4. The changes are as follows:

**C.8** Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

---

- (a) Notification requirements apply to each owner or operator. **For renovation projects**, if the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

**The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.** The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC ~~14-10-4~~ **14-10-1** emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

**Comment 10:**

*C.13 Risk Management Plan:*

In the first sentence of Condition C.13, “at a source” needs to be replaced with “in a process at a source.” A “source” may exceed the Part 68 threshold without triggering Part 68 requirements so long as no “process” within the source exceeds the threshold. A common example is a source with multiple small chlorine cylinders, each of which is below process thresholds which cumulatively the source exceeds the threshold. Part 68 does not apply in such circumstances. Accordingly, Nucor Building Systems requests that the language in draft Condition C.13 be revised accordingly.

**Response to Comment 10:**

The condition is revised to be consistent with Part 68 as follows:

C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present **in a process** at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP).

All documents submitted pursuant to this condition shall include the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

**Comment 11:**

*C.14 Compliance Monitoring Plan - Failure to Take Response Steps*

Presumably, the authority to mandate “Compliance Response Plans” is based on the broad authority of 326 IAC 2-8-4(1) and 326 IAC 2-8-5(a)(1) to include provisions in a FESOP that “assure compliance with the terms and conditions of the FESOP.” However, Nucor Building Systems believes that imposing such a requirement runs afoul of the holding in *Appalachian Power*. After the *Appalachian Power* case, we believe that IDEM, OAQ may not impose monitoring, record keeping, reporting and compliance certification requirements on a source unless one of four conditions is met:

- 1) An applicable requirement specifically establishes the monitoring, record keeping, reporting or compliance certification requirement;
- 2) An applicable requirement establishes no compliance demonstration methodology;
- 3) An applicable requirement establishes only a method, but not a frequency, for determining compliance; or
- 4) An applicable requirement establishes only an initial compliance test, but no periodic testing, to determine compliance.

Expansions of the “gap-filling” authority under the permitting program beyond these limits constituted, in the view of the court, unauthorized rulemaking in violation of federal and state law.

Accordingly, Nucor Building Systems objects to the imposition of the Compliance Monitoring Plan (CMP) and Compliance Response Plan (CRP) requirements in Condition C.14 for the following reasons.

1. The regulations do not support the CMP and CRP requirements. The Indiana regulations give IDEM, OAQ the authority to establish monitoring requirements, e.g., visible emission monitoring or parametric monitoring of specific emissions or units to assure compliance. The regulations do not authorize the requirement to prepare a plan or to dictate that Nucor Building Systems must follow such a plan. In essence, IDEM, OAQ is seeking to create an entirely new regulatory program without following the rulemaking procedures outlined under Indiana law.
2. The CMP requirements are redundant. The draft permit requires a CMP that consists primarily of reincorporated permit requirements and CRPs. The CMP does not appear to serve any independent purpose. If it serves no purpose, it should be deleted.
3. The CMP and CRP requirements represent double and possibly triple counting. The draft conditions require compliance with substantive emissions limits, establish substantive monitoring requirements, and then require Nucor Building Systems to develop a plan and make failure to develop, comply or respond to those plan requirements (in a manner that IDEM, OAQ deems appropriate) a permit violation. If a malfunction occurs and a monitor goes down and Nucor Building Systems responds in a fashion other than set forth in its CRP, Nucor Building Systems would potentially be in violation of the permit monitoring condition, the CMP and the CRP, making three violations for what is, in fact, only a single occurrence. Nucor Building Systems objects to this multiplication of its potential liability. Indeed, the Indiana regulations expressly require that the permit provide that:

In the event of any exceedance of a permit limitation or condition which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limitation or condition, both arising out of the same act or occurrence, such multiple exceedances shall constitute a single potential violation of the permit.

326 IAC 2-7-5(1)(E).

4. Individualized determination needed. Even if the CRP requirement has a basis in the IDEM regulations, which is not apparent, it should be required only when individually determined necessary and therefore IDEM, OAQ should specify each piece of equipment for which a CRP is required in Section D of the draft permit.

5. Undue interference in facility operations. While IDEM, OAQ's review of a facility's monitoring and maintenance plans may be appropriate, Nucor Building Systems objects to any required agency approval of a CRP as an inappropriate intrusion into Nucor Building Systems management of its own production process. In essence, a facility's duty is to comply with the terms of the permit which are essentially emissions limitations and standards. Monitoring and maintenance plans, on the other hand, are simply a means of determining and ensuring a facility's compliance with those emissions limitations and standards. There is no obligation to respond to a deviation of a monitoring plan or to conduct inspections and maintenance only in a way that IDEM, OAQ deems appropriate so long as the facility complies with the substantive monitoring requirement. The adoption and implementation of such plans should be reserved for facility management due to their familiarity, experience and expertise with the production process. Such business decisions should not be subject to approval and second guessing by agency personnel as to what response steps are "appropriate" or "reasonable." IDEM, OAQ should defer to the business as how to maintain its own equipment.
  
6. The emergency provision is an affirmative defense, not an obligation with penalties for failure to comply. Condition C.14(d) appears to characterize the 326 IAC 2-8-12 emergency provision rule, which is an affirmative defense, into a regulatory mandate that facilities must adhere to regardless of whether the defense is asserted. In other words, the emergency provision does not independently **require** prompt corrective action. Rather, prompt corrective action is required as a precondition to asserting the affirmative defense.

Nucor Building Systems respectfully requests that these concerns be given due consideration and that Condition C.14 be revised accordingly or deleted in its entirety.

#### **Response to Comment 11:**

There is sufficient authority for requiring a Compliance Response Plan (CRP) as part of a Compliance Monitoring Plan (CMP). 326 IAC 2-8-4(1) requires that all FESOPs contain operational requirements and limitations that assure compliance with all applicable requirements. 326 IAC 2-8-4(3) requires that all FESOPs contain monitoring and related record keeping requirements which assure that all reasonable information is provided to evaluate continuous compliance with applicable requirements. 326 IAC 2-8-5(3)(A)(ii) requires that, at a minimum, the periodic monitoring requirements must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance, even where the applicable requirement does not require periodic testing or instrumental monitoring. Also, 326 IAC 2-8-5(a)(1) requires that each FESOP contain compliance certification, testing, monitoring, reporting and record keeping requirements sufficient to assure compliance with the terms and conditions of the FESOP, and, pursuant to 326 IAC 2-8-5(a)(4), any other provisions that IDEM may require.

With respect to the court decision in Appalachian Power Company, et. al. v. Environmental Protection Agency, (D.C. Circ. 2000) 208 F.3d 1015, OAQ does not agree that the requirement for compliance monitoring, or the elements thereof, are inconsistent with the court's ruling in this case. Indiana's Title V rules (and FESOP rules, for purposes of addressing this comment) concerning compliance monitoring are somewhat different than the corresponding federal counterpart. The provisions of 326 IAC 2-8-4(3) state that each FESOP must include: "Monitoring and related record keeping and reporting requirements which assure that all reasonable information is provided to evaluate continuous compliance with the applicable requirements." Additionally, the language of 326 IAC 2-8-4(3) clearly suggests that existing federal monitoring requirements are considered only as "minimum" permit requirements. Further, the Petitioners in Appalachian Power did not question a state permitting authority to adopt more stringent permit requirements than federal law requires. Rather, the Petitioners questioned the EPA's authority to require state permitting authorities, in issuing Title V permits, to make revisions to monitoring requirements

in existing federal standards, Id. at p. 1019, n.6, p. 1024. The difference in the Indiana Title V (and FESOP) rules results in Indiana's ability to institute more stringent compliance monitoring requirements than the "gap-filling" constraints that were set forth by the court in Appalachian Power.

The above notwithstanding, IDEM, OAQ has decided to restructure C.14 to clarify the contents and implementation of the compliance response plan. Also, the name of the condition has been changed to better reflect the contents of the condition. The language regarding the OAQ's discretion to excuse failure to perform monitoring under certain conditions has been deleted. The OAQ retains this discretion to excuse minor incidents of missing data; however, it is not necessary to state criteria regarding the exercise of that discretion in the permit. The condition is revised as follows:

C.14 Compliance Monitoring **Response Plan - Failure to Take Response Steps Preparation, Implementation, Records, and Reports** [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) The Permittee is required to **prepare** ~~implement: a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. The compliance monitoring plan can be either an entirely new document, consist in whole of information contained in other documents, or consist of a combination of new information and information contained in other documents. If the compliance monitoring plan incorporates by reference information contained in other documents, the Permittee shall identify as part of the compliance monitoring plan the documents in which the information is found. The elements of the compliance monitoring plan are:~~
- ~~(1) This condition;~~
  - ~~(2) The Compliance Determination Requirements in Section D of this permit;~~
  - ~~(3) The Compliance Monitoring Requirements in Section D of this permit;~~
  - ~~(4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and~~
  - (5) **A a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP's shall be submitted to IDEM, OAQ, upon request and shall be subject to review and approval by IDEM, OAQ. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, and maintained on site, and is comprised of:**
    - (A)(1) Reasonable response steps that may be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.**
    - ~~(B) A time schedule for taking reasonable response steps including a schedule for devising additional response steps for situations that may not have been predicted.~~

- (2) **If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.**
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition **as follows: Failure to take reasonable response steps may constitute a violation of the permit.**
- (1) **Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or**
- (2) **If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.**
- (3) **If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.**
- (4) **Failure to take reasonable response steps shall constitute a violation of the permit.**
- (c) ~~Upon investigation of a compliance monitoring excursion, the~~ **The** Permittee is excused from taking **not required to take any** further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment **and** ~~This shall be an excuse from taking further response steps providing that~~ prompt action was taken to correct the monitoring equipment.
- (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
- (3) An automatic measurement was taken when the process was not operating.
- (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.

- (d) **When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B - Deviations from Permit Requirements and Conditions.**
- ~~(d)~~(e) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. **The Permittee shall record all instances when response steps are taken.** In the event of an emergency, the provisions of 326 IAC 2-7-16 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- ~~(e)~~(f) **Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed at all times when the equipment emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.** If monitoring is required by Section D and the equipment is not operating, then the Permittee may record the fact that the equipment is not operating or perform the required monitoring.
- ~~(f)~~ At its discretion, IDEM may excuse the Permittee's failure to perform the monitoring and record keeping as required by Section D, if the Permittee provides adequate justification and documents that such failures do not exceed five percent (5%) of the operating time in any quarter. Temporary, unscheduled unavailability of qualified staff shall be considered a valid reason for failure to perform the monitoring or record keeping requirements in Section D.

#### Comment 12:

##### *D.1.6 Preventive Maintenance Plan*

As currently drafted, section D.1.6 suggests that a PMP "is required for facilities ID-C and ID-C1 and their control devices." However, the PMP required under 326 IAC 1-6-3 only applies to emission control devices. Pursuant to 326 IAC 1-6-3(a)(1), the PMP must include "identification of the individual(s) responsible for inspecting, maintaining and repairing **emission control devices**." Thus, the Indiana regulations do not authorize imposition of PMP requirements for process equipment such as ID-C and ID-C1. Nucor Building Systems therefore requests that Condition D.1.6 be revised accordingly.

#### Response to Comment 12:

Pursuant to 326 IAC 2-8-5(9) (Permit Content), the FESOP must have a provision that requires the source to maintain on-site the PMP as described in 326 IAC 1-6-3. The PMP requirements of 326 IAC 1-6-3 are applicable to any *facility*, regardless of the use of emissions control equipment. IDEM's compliance monitoring guidance states that a compliance monitoring plan is required only for:

- (a) the unit emits particulate matter, sulfur dioxide, or volatile organic compounds; and
- (b) the unit has existing applicable requirements; and
- (c) the unit is subject to a NSPS or NESHAP (for these units current requirements will satisfy as a compliance monitoring plan); or
- (d) the unit has a control device and the allowable emissions exceed 10 pounds per hour; or
- (e) the unit does not have a control device and has actual emissions exceeding 25 tons per year.

The guidance is also used by OAQ to determine when a PMP requirement is needed, but it does not state that if a facility does not meet the above requirements, compliance monitoring or PMPs will never be necessary. It simply states that a compliance monitoring plan is not required to be submitted with the application.

Generally, a PMP is required on spray painting operations (i.e., facilities ID-C and ID-C1) because of the inherent variability of the materials being painted and the coatings used in the process, particularly the weight of the solids. This variability leads to a variable process weight rate and, subsequently, the allowable particulate matter emission rate may constantly change. Since OAQ does not apply limits to each and every coating used by a source, the PMP gives the OAQ the reasonable assurance that the spray painting operations continuously comply with the 326 IAC 6-3-2 rule for particulate matter emissions. There is no change to this condition due to this comment.

**Comment 13:**

*D.1.10 Monitoring*

It is unclear what is meant by “whenever a condition exists which should result in a response step.” Notwithstanding Nucor Building Systems’ comments on Condition C.14, we suggest the following revision to the third sentence in Condition D.1.10(a) to clarify when the obligation to take response steps pursuant to the CRP is triggered:

*The Compliance Response Plan shall be followed whenever daily inspections indicate problems with filter placement, integrity or loading, or whenever an abnormal emission is observed.*

Similarly, we suggest the following revision to the third sentence in Condition D.1.10(b):

*The Compliance Response Plan shall be followed whenever monthly inspections indicate an unusual increase in over spray emissions.*

**Response to Comment 13:**

Condition D.1.10 is revised to provide greater clarity as follows:

**D.1.10 Monitoring**

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the ID-C and ID-C1 surface coating booth stacks (1A and 1B; and 4A and 4B, respectively) while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever **daily inspections indicate problems with filter placement, integrity or loading; or weekly observations indicate an abnormal emissions** a condition exists, which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan - ~~Failure to Take Response Steps~~ **Preparation, Implementation, Records, and Reports**, shall be considered a violation of this permit.

- (b) Monthly inspections shall be performed of the coating emissions from the stacks and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever **monthly inspections indicated a noticeable change in overspray emission, or evidence of overspray emission is observed** ~~a condition exists~~ which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Response Plan - ~~Failure to Take Response Steps~~ **Preparation, Implementation, Records, and Reports**, shall be considered a violation of this permit.
- (c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

**Comment 14:**

*D.1.11 Record Keeping Requirements*

Nucor Building Systems objects to the onerous requirement of retaining a log of the dates of use of process materials. This overly burdensome requirement provides no meaningful data to assure compliance. Compliance is based on the **quantity and type** of VOC and HAP containing coating materials and solvent used in a certain time period, not **when** they were used in that time period. Keeping a log of the dates of use would impose an extreme record keeping burden on Nucor Building Systems with no corresponding assurance of compliance. Accordingly, because Nucor Building Systems' current inventory approach is sufficient to document compliance, we request that Condition D.1.11(a)(2) be deleted.

**Response to Comment 14:**

Condition D.1.11 does not contain a requirement to maintain a log of dates of coating material usage. The condition does require that the monthly amount of material used be recorded to demonstrate compliance with the emission limits established in Conditions D.1.2 and D.1.3. There is no change to this condition due to this comment.

Upon further review, and in addition to the Comments/Responses presented above, the OAQ has decided to make the following changes to the FESOP renewal (again, changes in bold and strikeout for emphasis):

1. The IDEM, OAQ, has revised Condition B.15 (Deviations from Permit Requirements and Conditions) to address concerns regarding the independent enforceability of permit conditions [see 326 IAC 2-8-4(5)]. Condition B.15 has been revised to remove language that could be considered to grant exemptions from permit requirements and to clarify reporting obligations, as follows:

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. ~~Deviations that are required to be reported by an applicable requirement~~ **A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit**, shall be reported according to the schedule stated in the applicable requirement and ~~do~~ **does** not need to be included in this report.

~~The notification by the Permittee~~ **Quarterly Deviation and Compliance Monitoring Report** does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit ~~or a rule. It does not include:~~

~~(1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or~~

~~(2) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.~~

~~A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.~~

- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

2. The OAQ has decided to modify several conditions by removing language stating that the condition is not federally enforceable. Federal law states that failure to comply with any permit condition issued under a program that has been approved into a State Implementation Plan (SIP) is to be treated as a violation of the SIP (40 CFR 52.23). This has the effect of making all FESOP conditions federally enforceable. Indiana's FESOP program was approved as a part of Indiana's SIP at 40 CFR 52.788. Neither the program nor the underlying rule, 326 IAC 2-8, contains provisions for designating certain conditions as not federally enforceable. As such, and pursuant to 326 IAC 2-8-6(b), Conditions C.3, C.4, C.5, and C.7 are revised with deleted statements shown with a line through it:

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. ~~326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.~~

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2. ~~326 IAC 9-1-2 is not federally enforceable.~~

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). ~~326 IAC 6-4-2(4) is not federally enforceable.~~

C.7 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. ~~The provisions of 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4(d)(3), (e), and (f), and 326 IAC 1-7-5(d) are not federally enforceable.~~

3. 326 IAC 2-8-3 requires any application form, report, or compliance certification to be certified by the Authorized Individual. IDEM, OAQ has revised Condition C.15 (Actions Related to Noncompliance Demonstrated by a Stack Test); a certification by the Authorized Individual is required for the notification sent in response to non-compliance with a stack test. The change is made as follows:

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]  
[326 IAC 2-8-5]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ, that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ, may extend the retesting deadline.

- (c) IDEM, OAQ, reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do ~~not~~ require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**Indiana Department of Environmental Management  
Office of Air Quality**

**Technical Support Document (TSD) for a Federally Enforceable Operating  
Permit (FESOP) Renewal**

**Source Background and Description**

|                              |   |
|------------------------------|---|
| <b>Source Name:</b>          | <b>Nucor Building Systems</b>                     |
| <b>Source Location:</b>      | <b>305 Industrial Parkway, Waterloo, IN 46793</b> |
| <b>County:</b>               | <b>DeKalb</b>                                     |
| <b>SIC Code:</b>             | <b>3448</b>                                       |
| <b>Operation Permit No.:</b> | <b>F033-5452-00035</b>                            |
| <b>Permit Reviewer:</b>      | <b>Michael Hirtler/EVP</b>                        |

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Nucor Building Systems relating to the operation of a prefabricated metal building and components assembly and coating plant. Nucor Building Systems was issued FESOP F033-5452-00035 on December 9, 1996 that will expire on December 9, 2001.

**Permitted Emission Units and Pollution Control Equipment**

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) Built Up Line Paint Booth, installed in 1987, rated at 9.1 gallons liquid paint per hour utilizing an one (1) gun low pressure air atomization spray application system all identified as ID-C, with particulate matter as over spray controlled by dry filter exhausting at two (2) stacks identified as 1A and 1B;
- (b) One (1) Built Up Line Auxiliary Paint Booth, installed in 1987, rated at 9.1 gallons liquid paint per hour utilizing an one (1) gun low pressure air atomization spray application system all identified as ID-C1, with particulate matter as over spray controlled by dry filter exhausting at two (2) stacks identified as 4A and 4B;
- (c) One (1) Purlin Line Vac-u-coater, installed in 1987, rated at 9.5 gallons liquid paint per hour utilizing one (1) flowcoat paint application method and identified as ID-D, exhausting at one (1) stack identified as 2, with separate one (1) rod flowcoater and one (1) small parts/plates dip coater; and
- (d) One (1) flange brace flowcoater, installed in 1999, having a rating of seven (7) tons of steel per week, also exhausting through stack 2.

**Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted facilities operating at this source during this review process.

**New Emission Units and Pollution Control Equipment Receiving Prior Approval**

There are no new facilities proposed at this source during this review process.

### Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units (Btu) per hour. This includes:
  - (1) one (1) Purlin Line flowcoating drying oven rated at 2 million Btu per hour;
  - (2) fifty-three (53) unit space heaters individually rated at 104,000 Btu per hour (5,512,000 Btu per hour, total rating); and
  - (3) three (3) boilers individually rated at 330,000 Btu per hour (990,000 Btu per hour, total rating)all installed in 1987;
- (b) a gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons;
- (c) a petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month;
- (d) VOC and HAP storage containers with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons;
- (e) machining where an aqueous cutting coolant continuously floods the machining interface;
- (f) the following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment and welding equipment, including:
  - (1) one (1) submerged arc type welding station (one submerged arc type welding station under original FESOP F033-5452-00035, issued on December 9, 1996, has been removed under this FESOP approval); and
  - (2) one (1) metal inert gas type welding station; and
- (g) two (2) cold cleaning type parts degreasers installed in 1987.

The following additional insignificant activities have been installed during the 5-year permit term under FESOP F033-5452-00035, issued on December 9, 1996, and have been added to this FESOP approval:

- (a) Two (2) airless type spray guns used for the coating of large metal parts in the area of booths ID-C, ID-C1 and ID-D, exhausting inside the production building;

- (b) Two (2) natural gas-fired air handler heating units individually rated at 5.8 million Btu per hour;
- (c) One (1) metal inert gas type welding station; and
- (d) Two (2) cold cleaning type parts degreasers installed in 2001.

### Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) FESOP (F033-5452-00035) issued on December 9, 1996, and expires on December 9, 2001;
- (b) First Administrative Amendment 033-9722, issued on May 29, 1998;
- (c) Second Administrative Amendment 033-11295, issued on November 4, 1999; and
- (e) Third Administrative Amendment 033-11936, issued on March 21, 2000.

All conditions from these approvals were incorporated into this FESOP, except the following:

- (a) FESOP 033-5452-00035, issued on December 9, 1996; and expires on December 9, 2001:

C.9 Gasoline Dispensing Facilities [326 IAC 8-4-6, 326 IAC 8-4-9]

For any gasoline dispensing facility and gasoline storage tank listed as an insignificant activity at Condition A.3, the Permittee shall ensure that any transfer of gasoline between any transport and any storage tank be into a storage tank equipped with the following: (1) A submerged fill pipe, (2) Either a pressure relief valve set to release at no less than seven-tenths (0.7) pounds per square inch or an orifice of five-tenths (0.5) inch in diameter, and (3) A vapor balance system connected between the tank and the transport, operating according to the manufacturer's specification. The Permittee shall pay fees in accordance with 326 IAC 8-4-6(c) and shall comply with any applicable requirements of 326 IAC 8-4-9.

Reason not incorporated: As discussed later in this document under **State Rule Applicability - Individual Facilities**, actual gasoline throughput data supplied by the source indicates that the requirements of Condition C.9 (i.e., 326 IAC 8-4-6 and 326 IAC 8-4-9) do not apply to its gasoline dispensing operation, as an insignificant activity, since the monthly throughput does not exceed the applicability threshold of 10,000 gallons. This condition was inserted into original FESOP F033-5452-00035 without obtaining information on actual throughput. The source has provided such information as part of this renewal to indicate the throughput does not exceed 10,000 gallons and, therefore, the condition has been deleted. The source shall maintain monthly gasoline throughput records to confirm its non-applicability with respect to the rule requirements.

- (b) Although not eliminated, the limits at Conditions D.1.1(b) (now renumbered as D.1.2) and D.1.3 have been adjusted to reflect respective 326 IAC 2-8 FESOP program limits of "less than" 100 tons, 25 tons and 10 tons for emissions of VOC, combined HAPs and single HAP, rather than the respective limits of 99 tons, 24 tons and 9 tons per year in the original FESOP.

Reason for Change: The revised format is consistent with current IDEM, OAQ, FESOP permit approvals and does not affect source applicability with respect to 326 IAC 2-8, nor does it trigger any new requirements. These changes are made without replication herein.

### Enforcement Issue

There are no Enforcement actions pending during this renewal review.

### Recommendation

The staff recommends to the Commissioner that the FESOP Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP Renewal application for the purposes of this review was received on March 8, 2001. The application was submitted on a timely basis, having been received by OAQ at least nine (9) months before the December 9, 2001 expiration date of the existing original FESOP.

There was no notice of completeness letter mailed to the source.

### Emission Calculations

See Appendix A of this document for detailed emissions calculations (eight (8) pages).

### Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

| Pollutant       | Unrestricted Potential Emissions (tons/yr) |
|-----------------|--|
| PM              | less than 100                              |
| PM-10           | less than 100                              |
| SO <sub>2</sub> | less than 100                              |
| VOC             | greater than 100, less than 250            |
| CO              | less than 100                              |
| NO <sub>x</sub> | less than 100                              |

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

| HAP                 | Unrestricted Potential Emissions<br>(tons/yr) |
|---------------------|---|
| glycol ethers       | greater than 10                               |
| hexane              | less than 10                                  |
| xylene              | less than 10                                  |
| ethyl benzene       | less than 10                                  |
| manganese compounds | less than 10                                  |
| Total HAPs          | greater than 25                               |

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of volatile organic compounds (VOC) is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) the combination of HAPs is greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (c) Fugitive Emissions  
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD and Emission Offset applicability.

### Potential to Emit After Issuance

The source, issued a FESOP on December 9, 1996, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of this Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP. (F033-5452-00035; issued on December 9, 1996).

| Process/Facility                                | Limited Potential to Emit (tons/year) <sup>(1)</sup> |                    |                 |                                     |     |                 |   |
|---|--|--------------------|-----------------|-------------------------------------|-----|-----------------|---|
|   | PM   | PM-10              | SO <sub>2</sub> | VOC                                 | CO  | NO <sub>x</sub> | HAPs  |
| Surface Coating                                 | 3.7 <sup>(2)</sup>                                   | 3.7 <sup>(2)</sup> | 0.0             | <del>98.18</del><br><b>&lt;98.2</b> | 0.0 | 0.0             | <del>24.0</del><br><b>&lt;10</b> <sup>(4)</sup> |
| Welding (insignificant activity)                | 2.1  | 2.1                | 0.0             | 0.0                                 | 0.0 | 0.0             | 0.1   |
| Natural Gas Combustion (insignificant activity) | 0.2  | 0.7                | 0.1             | 0.5                                 | 6.3 | 8.7             | 0.2   |
| Degreasing (insignificant activity)             | 0.0  | 0.0                | 0.0             | 1.3                                 | 0.0 | 0.0             | 0.0   |
| <b>Total PTE After Issuance</b>                 | 6.0  | 6.5                | 0.1             | <del>99.0</del><br><b>&lt;100</b>   | 6.3 | 8.7             | <del>24.0</del><br><b>&lt;25</b> <sup>(5)</sup> |

Notes:  
 1. Values in strikeout reflect emission limits from FESOP F033-5452-00035, issued December 9, 1996. The values in bold reflect revised emission limits for this FESOP renewal (see Existing Approvals section of this TSD for explanation on limit revision).  
 2. Potential to emit after controls. PM10 assumed equal to PM.  
 3. Reflects limited emissions for a single hazardous air pollutant.  
 4. Reflects limited emissions for total hazardous air pollutants.

### County Attainment Status

The source is located in DeKalb County.

| Pollutant       | Status     |
|-----------------|------------|
| PM-10           | attainment |
| SO <sub>2</sub> | attainment |
| NO <sub>2</sub> | attainment |
| Ozone           | attainment |
| CO              | attainment |
| Lead            | attainment |

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO<sub>x</sub>) are precursors for the formation of ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the ozone standards. DeKalb County has been designated as attainment for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

- (b) DeKalb County has been classified as attainment or unclassifiable for the remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

### **Federal Rule Applicability**

There are no new federal rules applicable to the source during this FESOP renewal review process. The applicability determination that follows is based on that conducted for the original FESOP F033-5452-00035, issued December 9, 1996:

- (a) (1) 40 CFR Part 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units)

The three (3) natural gas fired boilers with individual maximum heat input rates of 0.33 MMBtu per hour, each installed in 1987, are still not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.40c through 60.48c, Subpart Dc) because the facilities were installed prior to the rule applicability date of June 9, 1989 and they each have a maximum heat input rate below the rule applicability threshold of 10 MMBtu per hour.

- (2) 40 CFR Part 60, Subpart TT (Standards of Performance for Metal Coil Surface Coating)

The coating of metal parts is still not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.460 through 60.466, Subpart TT), because the raw material delivered in coils is fabricated into non-coil products prior to application of coatings.

- (3) 40 CFR Part 60, Subparts K, Ka, and Kb (Standards of Performance for Petroleum Liquid Storage Vessels and Volatile Liquid Storage Vessels)

The insignificant activities identified as "a petroleum fuel, other than gasoline, dispensing facility with storage capacity less than or equal to 10,500 gallons" and "a gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons" are still not subject to the New Source Performance Standards, 326 IAC 12, (40 CFR Parts 60.110, 110a - 115a or 110b - 117b, as Subparts K, Ka, and Kb, respectively) since the storage capacities associated with these activities are below the minimum applicable threshold to the three rules (i.e., 40 cubic meters (10,568 gallons)).

There are still no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this source.

- (b) There are still no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 61) applicable to this source.

- (c) (1) 40 CFR Part 63, Subpart T (National Emission Standards for Halogenated Solvent Cleaning)

The parts degreasing operation that includes four (4) Safety-Kleen wash tanks with capacities each less than 145 gallons, as an insignificant activity, is still not subject to the National Emission Standards for Hazardous Air Pollutants, 326 IAC 20, (40 CFR 63, Subpart T). Subpart T applies to degreasing operations using one of six listed halogenated solvents, or any combination of the solvents in a concentration greater than 5 percent by weight, as a cleaning or drying agent. The source does not use the regulated halogenated solvents in the degreasing operation; therefore, Subpart T does not apply.

- (2) The United States Environmental Protection Agency (US EPA) has established the *Miscellaneous Metal Part and Products (Surface Coating)* source category as requiring hazardous air pollutant control and has tentatively established May 2002 as the final rule promulgation date. As a FESOP source, this plant will not be subject to the pending NESHAP for source categories, 326 IAC 20, (40 CFR 63, Subpart M), *National Emission Standards for Miscellaneous Metal Part and Products*, for its metal parts coating processes since the source is not a major source of hazardous air pollutants pursuant to 40 CFR Part 63.2.

There are still no National Emission Standards for Hazardous Air Pollutants (NESHAPs) for source categories (326 IAC 20 and 40 CFR Part 63) applicable to this source.

#### **State Rule Applicability - Entire Source**

There are no new state rules applicable to the entire source during this FESOP renewal review process. The applicability determination that follows is based on that conducted for the original FESOP F033-5452-00035, issued December 9, 1996:

#### **326 IAC 2-2 and 40 CFR 52.21 (Prevention of Significant Deterioration, PSD)**

Pursuant to 326 IAC 2-2 and 40 CFR 52.21 (PSD), this source is still not considered a major source because it has the potential to emit less than 250 tons per year of any criteria pollutant and it is not one of the 28 listed source categories. Therefore, the Prevention of Significant Deterioration (PSD) rules, 326 IAC 2-2 and 40 CFR 52.21, do not apply.

#### **326 IAC 2-4.1-1 (New Source Toxics Control)**

Pursuant to 326 IAC 2-4.1-1 (New Source Toxics Control), any new process or production unit, which in and of itself emits or has the PTE 10 tons per year of any HAP or 25 tons per year of the combination of HAPs, and is constructed or reconstructed after July 27, 1997, must be controlled using technologies consistent with Maximum Achievable Control Technology (MACT). No facilities with an uncontrolled PTE of 10 tons per year of any single HAP and 25 tons per year of the combination of HAPs have been constructed or reconstructed since July 27, 1997. Therefore, the requirements of 326 IAC 2-4.1-1 (New Source Toxics Control) still do not apply to this source.

### 326 IAC 2-6 (Emission Reporting)

This source is located in DeKalb County which is not one of the specifically listed counties, nor does the source have the potential to emit CO, VOC, NO<sub>x</sub>, PM<sub>10</sub> (including fugitive emissions), or SO<sub>2</sub> in amounts at or exceeding one-hundred (100) tons per year. Therefore, the requirements of 326 IAC 2-6 still do not apply to the source.

### 326 IAC 2-8-4 (FESOP)

Pursuant to this rule, the amount of PM<sub>10</sub>, SO<sub>2</sub>, VOC, CO and NO<sub>x</sub> emitted from the source shall be limited to less than one hundred (100) tons per year, each. Additionally, the source shall comply with the following specific emission and/or production limitations:

- (a) The total input usage of volatile organic compounds (VOC) at the three (3) painting facilities (ID-C, ID-C1, and ID-D), the flange brace flowcoater, and the two (2) spray guns used for the coating of large metal parts, including VOC solvents and diluents, shall be less than 98.2 tons per twelve (12) consecutive month period. Compliance with this condition shall limit the source-wide potential to emit VOC to less than 100 tons per twelve (12) consecutive month period.
- (b) The total input usage of any single hazardous air pollutant (HAP) at the three (3) painting facilities (ID-C, ID-C1, and ID-D), the flange brace flowcoater, and the two (2) spray guns used for the coating of large metal parts, including solvents and diluents, shall be less than 10 tons per 12 consecutive month period. Compliance with this condition shall limit the source-wide potential to emit a single HAP to less than 10 tons per twelve (12) consecutive month period.
- (c) The total input usage of the combined HAPs at the three (3) painting facilities (ID-C, ID-C1, and ID-D), the flange brace flowcoater, and the two (2) spray guns used for the coating of large metal parts, including solvents and diluents, shall be less than 24.7 tons per twelve (12) consecutive month period. Compliance with this condition shall limit the source-wide potential to emit total HAPs to less than 25 tons per 12 consecutive month period.

Compliance with these limitations shall make the requirements of 326 IAC 2-7 (Part 70) not applicable to the source.

*(Note: See **Existing Approvals** section of this TSD for an explanation on changes made to the format of these limits versus that found in the original FESOP. No change to FESOP applicability occurs due to the format change.)*

### 326 IAC 5-1-2 (Visible Emission Limitations)

This source is located in DeKalb County. Therefore, pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions)

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

**State Rule Applicability - Individual Facilities**

There are no new state rules determined as applicable to individual facilities at this source during this FESOP renewal review process. The applicability determination that follows is based on that conducted for the original FESOP F033-5452-00035, issued December 9, 1996:

326 IAC 6-2 (Particulate Emissions Limitations for Sources of Indirect Heating)

The three (3) natural gas fired boilers as insignificant activities, each installed in 1987 and individually rated at 330,000 Btu per hour, are subject 326 IAC 6-2 (Particulate Emissions Limitations for Sources of Indirect Heating). Pursuant to 326 IAC 6-2-1, indirect heating facilities not in a specified county and receiving a permit to construct on or after September 21, 1983, shall limit particulate matter (PM) emissions according to the equation at 326 IAC 6-2-4 as follows:

$$Pt = \frac{1.09}{Q^{0.26}}$$

where: Pt = pounds of PM emitted per MMBtu heat input (lb/MMBtu)  
Q = total source operating capacity rating (MMBtu/hr)

The allowable emission rate each boiler is computed as follows:

$$\begin{aligned} Pt &= 1.09 / (0.99)^{0.26} \\ &= 1.09 \text{ lb/MMBtu; however, pursuant to 326 IAC 6-2-4(a), Pt shall not exceed} \\ &0.6 \text{ lb/MMBtu for Q less than 10 MMBtu (i.e., each natural gas fired boiler).} \end{aligned}$$

**Compliance Calculation**

Potential PM emissions for each boiler:

$$\begin{aligned} &= 0.049 \text{ tons per year per boiler (based on page 2 of 6 of Appendix A)} \\ &= (0.049 \text{ tons PM/yr}) * (2,000 \text{ lbs/ton}) * (1 \text{ yr} / 8,760 \text{ hrs}) * (1 \text{ hr} / 0.33 \text{ MMBtu/hr}) \\ &= 0.034 \text{ lbs PM / MMBtu} \end{aligned}$$

Based on these calculations, the controlled potential emissions are less than the allowable emissions. Therefore, each boiler complies with the rule.

### 326 IAC 6-3-2 (Process Operations)

Pursuant to 326 IAC 6-3-2(c), particulate matter emissions shall be limited as follows:

- (a) The particulate matter as overspray from coating booths ID-C and ID-C1 each shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

or

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour.}$$

The dry filters shall be in operation at all times the surface coating facilities are in operation in order to comply with this limit.

- (b) Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour. This includes the following equipment, as insignificant activities, related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment and welding equipment, including:

- (1) one (1) submerged arc type welding station; and
- (2) two (2) metal inert gas type welding stations.

There will be no compliance monitoring condition inserted into the permit since these insignificant activities have no control device and do not have actual emissions exceeding 25 tons per year.

### 326 IAC 8-1-6 (General Volatile Organic Compound Reduction Requirements)

This rule applies to facilities located anywhere in the state that were constructed on or after January 1, 1980, which have potential volatile organic compound (VOC) emissions of 25 tons per year or more, and which are not otherwise regulated by another provision of Article 8. Emissions at the four (4) coating facilities ID-C, ID-C1, ID-D, and the flange brace flowcoater are regulated pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating), as discussed below. Therefore, the requirements of 326 IAC 8-1-6 do not apply.

### 326 IAC 8-2-9 (Miscellaneous Metal Coating)

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coatings applied to the metal parts and products at coating facilities ID-C, ID-C1, ID-D, the flange brace flowcoater, and the two (2) spray guns used for the coating of large metal parts shall be limited to 3.5 pounds of VOC per gallon of coating less water, for air dried and forced warm air dried coatings.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

Based on the MSDS submitted by the source and calculations made, the coating booths are in compliance with this requirement.

### 326 IAC 8-3-2 (Cold Cleaner Operations)

The source, which is located in DeKalb County and maintains four (4) Safety-Kleen type cold cleaning parts washers with capacities of less than 145 gallons (i.e., insignificant activities), is subject to the applicable rule requirements since the facilities are new after January 1, 1980. As such, and pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the owner or operator shall ensure that the following requirements are met for each of the four (4) cold cleaning facilities:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

The source continues to comply with these requirements for the four (4) cold cleaning facilities. It is noted that this requirement, previously Condition C.8 of original FESOP F033-5452-00035, issued on December 9, 1996, has been moved to new Section D.2. Since this requirement is facility specific the condition should appear in Section D of the permit rather than Section C which contains source-wide conditions.

**326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)**

The requirements of this rule apply to cold cleaning degreasers without remote solvent reservoirs that either existed as of July 1, 1990 and was located in a specified county, or the cleaning facility was constructed after July 1, 1990 and was located in anywhere in the state. This source, located in DeKalb County which is a non-listed county, is not subject to the applicable rule requirements since two (2) degreasers were existing as of July 1, 1990 (i.e., installed in 1987), and all four (4) degreasers have remote solvent reservoirs.

**326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)**

Pursuant to 326 IAC 8-4-1 (Applicability) and 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities), all petroleum liquid storage vessels with capacities greater than one hundred fifty thousand (150,000) liters (39,000 gallons) containing VOC whose true vapor pressure is greater than 10.5 kPa (1.52 psi) shall comply with the requirements for external fixed and floating roof tanks and the specified record keeping and reporting requirements. The insignificant activity identified as a petroleum fuel, other than gasoline, dispensing facility with storage capacity less than or equal to 10,500 gallons is not subject to the requirements of 326 IAC 8-4-3 since the storage tank is below the 39,000 gallon threshold for rule applicability.

**326 IAC 8-4-6 (Gasoline Dispensing Facilities) and 326 IAC 8-4-9 (Leaks from Transports and Vapor Collection Systems)**

Pursuant to 326 IAC 8-4-1 (Applicability), the requirements of 326 IAC 8-4-6 (Gasoline Dispensing Facilities), shall apply to any gasoline storage tank and dispensing facility, except dispensing facilities with a monthly throughput of less than ten thousand (10,000) gallons per month and that were in existence prior to July 1, 1989. As an insignificant activity, the gasoline fuel transfer and dispensing operation was in existence at the source prior to July 1, 1989; however, based on usage records, the actual maximum throughput at the source is well below the 10,000 gallons per month applicability threshold. Therefore, these requirements to not apply to the source and the requirements of 326 IAC 8-4-9 (Leaks from Transports and Vapor Collection Systems) are likewise not applicable. The source shall maintain monthly records of the gasoline throughput at the dispensing facility and shall submit such records to OAQ upon request to demonstrate compliance with this determination.

**326 IAC 8-6 (Organic Solvent Emission Limitations)**

This rule applies to sources commencing operation after October 7, 1974 and prior to January 1, 1980, located anywhere in the state, with potential solvent VOC emissions of 100 tons per year or more, and not regulated by any other provision of Article 8. This source was constructed after January 1, 1980. Therefore, this rule does not apply to this source.

**326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties)**

The requirements of this rule apply to stationary sources located in Lake, Porter, Clark and Floyd Counties that emit or have the potential to emit VOCs at levels equal to or greater than 25 tons per year in Lake and Porter Counties; 100 tons per year in Clark and Floyd Counties; and to any coating facility that emits or has the potential to emit 10 tons per year or greater in Lake, Porter, Clark or Floyd County. The source is located in DeKalb County. Therefore, this rule is not applicable to this source.

### 326 IAC 8-9-1 (Volatile Organic Liquid Storage Vessels)

Pursuant to 326 IAC 8-9-1, on and after October 1, 1995 stationary vessels used to store volatile organic liquids (VOL) must comply with the requirement of the rule if located in Clark, Floyd, Lake or Porter Counties. This rule is not applicable to this source since it is located in DeKalb County.

### Testing Requirements

Compliance testing is not required of this source since the coating material usage and related VOC and volatile organic HAP emissions assume an emission factor of 2,000 pounds of pollutant emitted per ton of pollutant input to the coating operation, and the overspray is controlled by dry filter with emissions after control well below the allowable particulate matter emission rate.

### Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

All compliance requirements from previous approvals were incorporated into this FESOP. The compliance monitoring requirements applicable to this source are as follows:

The two (2) coating facilities ID-C and ID-C1 have applicable compliance monitoring conditions as specified below:

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the ID-C and ID-C1 surface coating booth stacks (1A and 1B; and 4A and 4B, respectively) while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

- (b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
  
- (c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

These monitoring conditions are necessary because the source must operate properly to ensure compliance with the VOC and single and combined HAP emissions limits such that the source is limited to less than Title V applicability levels, and the stated facilities and their control devices must operate properly to ensure compliance with 326 IAC 5 (Visible Emission Limitations), 326 IAC 6-3-2 (Particulate Matter), 326 IAC 8-2-9 (VOC for Miscellaneous Metal Coating Operations), and 326 IAC 2-8-4 (FESOP).

## **Conclusion**

The renewed operation of this prefabricated metal building and components assembly and coating plant shall be subject to the conditions of the attached proposed FESOP Renewal No.: F033-14157-00035.

**Appendix A: Emissions Summary (Page 1 of 6)**

**Company Name: Nucor Building Systems**

**Address City IN Zip: 305 Industrial Parkway, Waterloo, IN 46793**

**FESOP Renewal No.: F033-14157-00035**

**Reviewer: Michael Hirtler**

**Date: July 13, 2001**

**Uncontrolled Potential to Emit (tons/year)**

**Emissions Generating Activity**

| Pollutant | Combustion | Surface Coating | Welding | Degreasing** | Total |
|-----------|------------|-----------------|---------|--------------|-------|
| PM        | 0.2        | 61.2            | 2.1     | 0.0          | 63.5  |
| PM-10     | 0.7        | 61.2            | 2.1     | 0.0          | 64.0  |
| SO2       | 0.1        | 0.0             | 0.0     | 0.0          | 0.1   |
| NOx       | 8.7        | 0.0             | 0.0     | 0.0          | 8.7   |
| VOC       | 0.5        | 180.0           | 0.0     | 1.3          | 181.8 |
| CO        | 6.3        | 0.0             | 0.0     | 0.0          | 6.3   |
| HAPS      | 0.2        | 28.2            | 0.1     | 0.0          | 28.5  |

Total Uncontrolled Potential to Emit based on rated capacity assuming operations at 8,760 hours per year.

\*\* Based on emission factor taken from AP-42, Table 4.6-2 for cold cleaning degreasers (4 degreasers).

**Limited/Controlled Potential to Emit (tons/year)**

**Emissions Generating Activity**

| Pollutant | Combustion | Surface Coating  | Welding | Degreasing** | Total            |
|-----------|------------|------------------|---------|--------------|------------------|
| PM        | 0.2        | 3.7              | 2.1     | 0.0          | 6.0              |
| PM-10     | 0.7        | 3.7              | 2.1     | 0.0          | 6.5              |
| SO2       | 0.1        | 0.0              | 0.0     | 0.0          | 0.1              |
| NOx       | 8.7        | 0.0              | 0.0     | 0.0          | 8.7              |
| VOC       | 0.5        | <98.2            | 0.0     | 1.3          | <100             |
| CO        | 6.3        | 0.0              | 0.0     | 0.0          | 6.3              |
| HAPS      | 0.2        | <10 (single HAP) | 0.1     | 0.0          | <25 (total HAPs) |

Total Limited/controlled Potential to Emit based on rated capacity assuming operations at 8,760 hours per year, after controls.

\*\* Based on emission factor taken from AP42, Table 4.6-3 for cold cleaning degreasers w/cover and drainage for VOC emissions control (no control assumed).

**Appendix A: Emissions Calculations  
Natural Gas Combustion Only  
MM BTU/HR <100**

**Company Name: Nucor Building Systems  
Address City IN Zip: 305 Industrial Parkway, Waterloo, IN 46793  
FESOP Renewal No.: F033-14157-00035  
Reviewer: Michael Hirtler  
Date: July 13, 2001**

| Total Heat Input Capacity<br>MMBtu/hr |                        | Total Potential Throughput<br>MMCF/yr |                        |
|---------------------------------------|------------------------|---------------------------------------|------------------------|
| 5.512                                 | (units <=0.3 MMBtu/hr) | 48.3                                  | (units <=0.3 MMBtu/hr) |
| 14.590                                | (units >0.3 MMBtu/hr)  | 127.8                                 | (units >0.3 MMBtu/hr)  |

| Emission Factor in lb/MMCF    | Pollutant |       |     |             |     |             |
|-------------------------------|-----------|-------|-----|-------------|-----|-------------|
|                               | PM*       | PM10* | SO2 | NOx         | VOC | CO          |
|                               | 1.9       | 7.6   | 0.6 | 94.0        | 5.5 | 40.0        |
|                               |           |       |     | 100.0       |     | 84.0        |
|                               |           |       |     | **see below |     | **see below |
| Potential Emission in tons/yr | 0.2       | 0.7   | 0.1 | 8.7         | 0.5 | 6.3         |

\*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

\*\*Emission Factors for NOx: Uncontrolled = 94 for heat input capacity <=3 MMBtu/hr; = 100 for heat input capacity >3 MMBtu/hr

\*\*Emission Factors for CO: Uncontrolled = 40 for heat input capacity <=3 MMBtu/hr; = 84 for heat input capacity >3 MMBtu/hr

**Methodology**

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPL. D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Emissions reflect 53 heaters @0.104 MMBtu/hr each; 3 boilers @0.330 MMBtu/hr each.; & 1 drying oven @2.0 MMBtu/hr

**Appendix A: Emissions Calculations**  
**Natural Gas Combustion Only**  
**MM BTU/HR <100**  
**HAPs Emissions**

**Company Name: Nucor Building Systems**  
**Address City IN Zip: 305 Industrial Parkway, Waterloo, IN 46793**  
**FESOP Renewal No.: F033-14157-00035**  
**Reviewer: Michael Hirtler**  
**Date: July 13, 2001**

HAPs - Organics

|                               |                    |                            |                         |                   |                    |
|-------------------------------|--------------------|----------------------------|-------------------------|-------------------|--------------------|
| Emission Factor in lb/MMcf    | Benzene<br>2.1E-03 | Dichlorobenzene<br>1.2E-03 | Formaldehyde<br>7.5E-02 | Hexane<br>1.8E+00 | Toluene<br>3.4E-03 |
| Potential Emission in tons/yr | 1.849E-04          | 1.057E-04                  | 6.604E-03               | 1.585E-01         | 2.994E-04          |

HAPs - Metals

|                               |                 |                    |                     |                      |                   |
|-------------------------------|-----------------|--------------------|---------------------|----------------------|-------------------|
| Emission Factor in lb/MMcf    | Lead<br>5.0E-04 | Cadmium<br>1.1E-03 | Chromium<br>1.4E-03 | Manganese<br>3.8E-04 | Nickel<br>2.1E-03 |
| Potential Emission in tons/yr | 4.402E-05       | 9.685E-05          | 1.233E-04           | 3.346E-05            | 1.849E-04         |

Methodology is the same as page 2 of 6 of TSD, Appendix A.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emission Calculations  
VOC and Particulate  
From Surface Coating Operations**

**Company Name: Nucor Building Systems  
Address City IN Zip: 305 Industrial Parkway, Waterloo, IN 46793  
FESOP Renewal No.: F033-14157-00035  
Reviewer: Michael Hirtler  
Date: July 13, 2001**

| Potential Emissions (uncontrolled):                         |                         |                  |                                   |                |                   |                |                           |                       |                     |   |                                  |                               |                              |                              |                              |                    |                     |  |
|---|-------------------------|------------------|-----------------------------------|----------------|-------------------|----------------|---------------------------|-----------------------|---------------------|---|----------------------------------|-------------------------------|------------------------------|------------------------------|------------------------------|--------------------|---------------------|--|
| Material (as applied)                                       | Process ID              | Density (Lb/Gal) | Weight % Volatile (H2O& Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Vol (solids) | Gal of Mat (gal/unit) | Maximum (unit/hour) | Pounds VOC per gallon of coating less water | Pounds VOC per gallon of coating | Potential VOC pounds per hour | Potential VOC pounds per day | Potential VOC tons per year  | Particulate Potential ton/yr | lb VOC /gal solids | Transfer Efficiency |  |
| Solvent Based Red Oxide Primer (1-1069)                     | C (Built-up Line)       | 11.1             | 30.85%                            | 0.0%           | 30.9%             | 0.0%           | 46.24%                    | 9.1                   | gal/hour            | 3.42  | 3.42                             | 31.16                         | 747.88                       | 136.49                       | 61.19                        | 7.41               | 80%                 |  |
| Solvent Based Gray Primer (1-1084)                          | C (Built-up Line)       | 10.9             | 31.94%                            | 0.0%           | 31.9%             | 0.0%           | 45.53%                    | 9.1                   | gal/hour            | 3.48  | 3.48                             | 31.68                         | 760.35                       | 138.76                       | 59.14                        | 7.65               | 80%                 |  |
| Water Based W/R Red Oxide Primer (96-1135)                  | D (Purlin Line)         | 10.90            | 46.65%                            | 38.9%          | 7.7%              | 50.9%          | 38.49%                    | 9.5                   | gal/hour            | 1.71  | 0.84                             | 7.98                          | 191.61                       | 34.97                        | 0.00                         | 2.18               | 100%                |  |
| Water Based W/R Gray Primer (96-1153-35)                    | D (Purlin Line)         | 10.75            | 45.53%                            | 37.8%          | 7.7%              | 48.8%          | 40.81%                    | 9.5                   | gal/hour            | 1.62  | 0.83                             | 7.85                          | 188.48                       | 34.40                        | 0.00                         | 2.03               | 100%                |  |
| W/R Red 96-1135   | flange brace flowcoater | 10.90            | 46.65%                            | 38.9%          | 7.7%              | 50.9%          | 38.49%                    | 0.525                 | 1.00                | 1.71  | 0.84                             | 0.44                          | 10.59                        | 1.93                         | 0.00                         | 2.18               | 100%                |  |
| W/R Gray 96-1153  | flange brace flowcoater | 10.75            | 45.53%                            | 37.8%          | 7.7%              | 48.8%          | 40.81%                    | 0.525                 | 1.00                | 1.62  | 0.83                             | 0.43                          | 10.42                        | 1.90                         | 0.00                         | 2.03               | 100%                |  |
| Solvent Usage for Spray Gun Cleaning                        |                         | 7.26             | 100.00%                           | 0.0%           | 100.0%            | 0.0%           | 0.00%                     |                       |                     |   |                                  | 0.98                          | 23.51                        | 4.29                         | 0.00                         |                    |                     |  |
| Total Uncontrolled Potential to Emit (tons per year):       |                         |                  |                                   |                |                   |                |                           |                       |                     |   |                                  | <b>41.09</b>                  | <b>986.06</b>                | <b>179.96</b>                | <b>61.19</b>                 |                    |                     |  |
| Total Limited/Controlled Potential to Emit (tons per year): |                         |                  |                                   |                |                   |                |                           |                       |                     | 12-mos Input Usage Limit VOC                | Control Efficiency PM            | Controlled VOC lbs per Hour   | Controlled VOC lbs per Day   | Controlled VOC tons per Year | Controlled PM tons/yr        |                    |                     |  |
|   |                         |                  |                                   |                |                   |                |                           |                       |                     | 44.93%                                      | 94.00%                           | <b>41.09</b>                  | <b>986.06</b>                | < <b>99.10</b>               | <b>3.67</b>                  |                    |                     |  |

**Methodology:**

- Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) \* Weight % Organics) / (1-Volume % water)
- Pounds of VOC per Gallon Coating = (Density (lb/gal) \* Weight % Organics)
- Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr)
- Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr) \* (24 hr/day)
- Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr) \* (8760 hr/yr) \* (1 ton/2000 lbs)
- Particulate Potential Tons per Year = (units/hour) \* (gal/unit) \* (lbs/gal) \* (1- Weight % Volatiles) \* (1-Transfer efficiency) \*(8760 hrs/yr) \*(1 ton/2000 lbs)
- Pounds VOC per Gallon of Solids = (Density (lbs/gal) \* Weight % organics) / (Volume % solids) \* Transfer Efficiency
- Total = Sum of Worst Coatings per booth + Sum of all solvents used
- Controlled VOC Emission Rate = Uncontrolled Emission Rate \* (1 - VOC Input Limitation)
- Controlled PM Emission Rate = Uncontrolled Emission Rate \* (1 - Control Efficiency)

Total material usage (i.e., VOC delivered to applicator and clean-up solvent usage) will be limited to 45% of total potential material usage based on 8,760 hours per year operation in order to limit VOC from surface coating to 99 tons per year. Potential paint usage as shown above includes any paint that would be used in the metal rod flowcoater and the small parts coater.

Note: In addition to the single Process ID C (Built-up Line) spray booth noted above, Nucor Building Systems also has an auxiliary booth on their Built-up Line. Nucor has stated that the auxiliary booth will be operated when the primary booth cited above is off-line, utilizing the same raw materials at the same rates shown above. Irrespective of the Built-up Line booth used for spray coating operations (i.e., primary or auxiliary), total controlled VOC tons per year will remain at 98.2 tons per year in order to comply with the source-wide FESOP limit for VOC of 99 tons per year.

**Appendix A: HAP Emission Calculations**

**Company Name:** Nucor Building Systems  
**Address City IN Zip:** 305 Industrial Parkway, Waterloo, IN 46793  
**FESOP Renewal No.:** F033-14157-00035  
**Reviewer:** Michael Hirtler  
**Date:** July 13, 2001  
 March 15, 1996

| Material<br>(as applied)                          | Density<br>(Lb/Gal) | Gal of Mat<br>(gal/unit) | Maximum<br>(unit/hour) | Weight %<br>Glycol<br>Ethers | Weight %<br>Xylene | Weight %<br>Ethylbenzene | Weight % | HAP EMISSION RATES (TONS PER YEAR) |               |               |               |               |               |               | Total<br>HAPs |               |               |
|---|---------------------|--------------------------|------------------------|------------------------------|--------------------|--------------------------|----------|----------|----------|----------|----------|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|   |                     |                          |                        |                              |                    |                          |          |          |          |          |          | Glycol<br>Ethers                   | Xylene        | Ethylbenzene  |               |               |               |               |               |               |               |
| Water Based W/R Red Oxide Primer                  | 10.90               | 10.025                   | gal / hour             | 5.00%                        | 0.00%              | 0.00%                    | 0.00%    | 0.00%    | 0.00%    | 0.00%    | 0.00%    | 23.93                              | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 23.93         |               |
| Water Based W/R Gray Primer                       | 10.75               | 10.025                   | gal / hour             | 5.00%                        | 0.00%              | 0.00%                    | 0.00%    | 0.00%    | 0.00%    | 0.00%    | 0.00%    | 23.60                              | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 23.60         |               |
|   |                     |                          |                        | 0.00%                        | 0.00%              | 0.00%                    | 0.00%    | 0.00%    | 0.00%    | 0.00%    | 0.00%    | 0.00                               | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          |               |
| Solvent Usage For Spray Gun Cleaning              | 7.26                | 1180.9                   | gal / year             | 0.00%                        | 87.00%             | 13.00%                   | 0.00%    | 0.00%    | 0.00%    | 0.00%    | 0.00%    | 0.00                               | 3.73          | 0.56          | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 4.29          |               |
| Uncontrolled Potential to Emit (tons/year):       |                     |                          |                        |                              |                    |                          |          |          |          |          |          | <b>23.93</b>                       | <b>3.73</b>   | <b>0.56</b>   | <b>0.00</b>   | <b>0.00</b>   | <b>0.00</b>   | <b>0.00</b>   | <b>0.00</b>   | <b>0.00</b>   | <b>28.22</b>  |
| Limited/Controlled Potential to Emit (tons/year): |                     |                          |                        |                              |                    |                          |          |          |          |          |          | <b>&lt;10</b>                      | <b>&lt;10</b> | <b>&lt;10</b> | <b>&lt;10</b> | <b>&lt;10</b> | <b>&lt;10</b> | <b>&lt;10</b> | <b>&lt;10</b> | <b>&lt;10</b> | <b>&lt;25</b> |

**METHODOLOGY**

HAPS emission rate (tons/yr) = Density (lb/gal) \* Gal of Material (gal/unit) \* Maximum (unit/hr) \* Weight % HAP \* 8760 hrs/yr \* 1 ton/2000 lbs

Total = worst coating + sum of all solvents used (primers are applied in process unit D on a mutually exclusive basis). Emissions reflect Purlin & flange brace flowcoater process, where Built-up line coating material contained no HAPs.

**Appendix A: Emission Calculations  
Welding Operations**

**Company Name: Nucor Building Systems**  
**Address City IN Zip: 305 Industrial Parkway, Waterloo, IN 46793**  
**FESOP Renewal No.: F033-14157-00035**  
**Reviewer: Michael Hirtler**  
**Date: July 13, 2001**

| Type of Operation                    | Total Maximum Throughput (lb/hr) | Emission Factors |               |                              |                |                |                  | Emission Rate |               |                   |                |                |                  |
|--------------------------------------|----------------------------------|------------------|---------------|------------------------------|----------------|----------------|------------------|---------------|---------------|-------------------|----------------|----------------|------------------|
|                                      |                                  | PM (lb/lb)       | PM-10 (lb/lb) | Manganese (lb/lb)            | Nickel (lb/lb) | Cobalt (lb/lb) | Chromium (lb/lb) | PM tons/yr    | PM-10 tons/yr | Manganese tons/yr | Nickel tons/yr | Cobalt tons/yr | Chromium tons/yr |
| Submerged Arc Welding - 1 Station    | 0.54                             | 5.0E-05          | 5.0E-05       | N/D                          | N/D            | N/D            | N/D              | 1.2E-04       | 1.2E-04       | 0.0E+00           | 0.0E+00        | 0.0E+00        | 0.0E+00          |
| Metal Inert Gas Welding - 2 Stations | 91.02                            | 5.2E-03          | 5.2E-03       | 3.18E-04                     | 1.00E-06       | 1.00E-06       | 1.00E-06         | 2.1E+00       | 2.1E+00       | 1.3E-01           | 4.0E-04        | 4.0E-04        | 4.0E-04          |
|                                      |                                  |                  |               |                              |                |                |                  |               |               |                   |                |                |                  |
|                                      |                                  |                  |               | Potential to Emit (tons/yr): |                |                |                  | 2.1E+00       | 2.1E+00       | 1.3E-01           | 4.0E-04        | 4.0E-04        | 4.0E-04          |

**Methodology:**

N/D = no data available.

Emissions (tons/yr) = maximum throughput (lbs/hr) \* emission factor (lb pollutant/lb electrode) \* (8,760 hr/yr) \* (1 ton/2,000 lbs), where maximum throughput reflects amount of welding wire consumed.

Emission Factors from AP 42 (January 1995), Chapter 12.19, Tables 12.19-1 and 12.19-2, with MIG default electrode type E70S as the default wire type for Lincoln L50 (majority of wire type).

Total particulates assumed equal to PM-10.