



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: Feb. 22, 2011

RE: NUCOR Vulcraft Group-St. Joe Division / 033-29931-00027

FROM: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

## Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency  
401 M Street  
Washington, D.C. 20406

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.



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Mr. Tim Jones  
Nucor Vulcraft - St. Joe Division  
P.O. Box 1000  
Saint Joe, IN 46785

Feb. 22, 2011

Re: 033-29931-00027  
Minor Permit Modification to  
Part 70 Renewal No.: T 033-25285-00027

Dear Mr. Jones:

Nucor Vulcraft - St. Joe Division was issued a Part 70 Operating Permit Renewal on September 10, 2008, for a stationary steel joist and deck fabrication operation. A letter requesting changes to this permit was received on November 17, 2010. Pursuant to the provisions of 326 IAC 2-7-12 a minor permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of replacement of the vacuum assisted flow coater on the Middle Span Line with a dip-and-drain paint tank.

All other conditions of the permit shall remain unchanged and in effect. For your convenience, the entire Part 70 Operating Permit as modified will be provided at issuance. A copy of this permit is available on the Internet at: [www.in.gov/ai/appfiles/idem-caats/](http://www.in.gov/ai/appfiles/idem-caats/).

This decision is subject to the Indiana Administrative Orders and Procedures Act – IC 4-21.5-3-5. If you have any questions on this matter, please contact Kimberly Cottrell, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Kimberly Cottrell or extension (3-0870), or dial (317) 233-0870.

Sincerely,

Tripurari P. Sinha, Ph. D., Section Chief  
Permits Branch  
Office of Air Quality

Attachments:  
Updated Permit  
Technical Support Document  
PTE Calculations

klc

cc: File – DeKalb County  
DeKalb County Health Department  
U.S. EPA, Region V  
Northern Regional Office  
Compliance and Enforcement Branch  
Interested Parties

Mr. Steve Rowlan  
Nucor Corporation  
2100 Rexford Road  
Charlotte, NC 28211

Ms. Erin Surinak  
ERM, Inc.  
11350 North Meridian, Suite 320  
Carmel, IN 46032



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## PART 70 OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

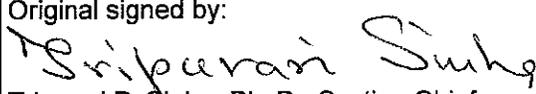
**Nucor Vulcraft - St. Joe Division  
6610 County Road 60  
St. Joe, Indiana 46785**

(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.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. 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. 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.

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 2-7 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. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions.

|   |  |
|---|--|
| Operation Permit No.: T033-25285-00027  |  |
| Original signed by:<br><br>Chrystal A. Wagner, Section Chief<br>Permits Branch<br>Office of Air Quality | Issuance Date: September 10, 2008<br><br>Expiration Date: September 10, 2013 |

|  |   |
|--|---|
| Minor Permit Modification No.: T033-29931-00027  |   |
| Original signed by:<br><br>Tripurari P. Sinha, Ph. D., Section Chief<br>Permits Branch<br>Office of Air Quality | Issuance Date: Feb. 22, 2011<br><br>Expiration Date: September 10, 2013 |

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**Attachment A: Standards of Performance for Metal Coil Coating NSPS [40 CFR Part 60, Subpart TT]**

## 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, A.3 and A.4 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 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

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The Permittee owns and operates a stationary steel joist and deck fabrication operation.

|                              |  |
|------------------------------|--|
| Source Address:              | 6610 County Road 60, St. Joe, Indiana 46785  |
| General Source Phone Number: | (260) 337-1884   |
| SIC Code:                    | 3441, 3444   |
| County Location:             | DeKalb   |
| Source Location Status:      | Attainment for all criteria pollutants   |
| Source Status:               | Part 70 Operating Permit Program<br>Minor Source, under PSD Rules<br>Minor Source, Section 112 of the Clean Air Act<br>Not 1 of 28 Source Categories |

### A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

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This source consists of two (2) plants:

- (a) Nucor Fastener is located at 6730 County Road 60, St. Joe, Indiana 46785; and
- (b) NUCOR Vulcraft Group – St. Joe Division is located at 6610 County Road 60, St. Joe, Indiana 46785.

On October 11, 2006, in Significant Permit Modification (033-22929-00027), a source determination concluded that NUCOR Vulcraft Group – St. Joe Division and Nucor Fastener are under the common control of Nucor Corporation, and will be considered one source. These two plants are considered one source because they are located on adjacent properties, are under common ownership, and belong to the same industrial grouping. Nucor Fastener's operations are included as part of NUCOR Vulcraft's Part 70 operating source. Therefore, the term "source" in the Part 70 documents refers to both NUCOR Vulcraft Group – St. Joe Division and Nucor Fastener as one source.

Separate Part 70 permits will be issued to Nucor Fastener with Permit No.: T033-20219-00038 and NUCOR Vulcraft Group – St. Joe Division with Permit No.: T033-25285-00027 solely for administrative purposes.

### A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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

- (a) One (1) joist fabrication line including a GMAW welding area and two (2) dip-and-drain paint tanks, identified as Super Long Span Line, constructed in August 1991, with a maximum production capacity of ten (10) tons of steel joists per hour.

- (b) One (1) joist fabrication line including a GMAW welding area and two (2) dip-and drain paint tanks, identified as Long Span Line, constructed in September 1974, with the original solvent-based paint dip tanks replaced with water-based paint dip tanks in January 1993, with a maximum production capacity of ten (10) tons of steel joists per hour.
- (c) One (1) joist fabrication line including a GMAW welding area and a dip-and-drain paint tank, identified as Middle Span Line, constructed in March 1972, with the paint tank constructed in 2011, with a maximum production capacity of ten (10) tons of steel joists per hour.
- (d) One (1) joist fabrication line including a GMAW welding area and a vacuum-assisted flow coater, identified as Short Span Line, constructed in March 1972, with the original solvent-based paint dip tanks replaced with a water-based flow coater in September 1994, with a maximum production capacity of nine (9) tons of steel joists per hour.
- (e) One (1) joist fabrication line including a GMAW welding area, and two (2) dip-and drain paint tanks, identified as Combo Line, constructed in October 1985, with the original solvent-based paint dip tanks replaced with water-based paint dip tanks in September 1994, with a maximum production capacity of twelve (12) tons of steel joists per hour.
- (f) One (1) bridging fabrication line including a GMAW welding area, two (2) dip-and drain paint tanks, and a vacuum coater, identified as Bridging Line, with the welding area and solvent-based paint tanks constructed in March 1972, with the original solvent-based paint tanks replaced with water-based paint tanks and a vacuum coater added in December 1992, with a maximum production capacity of ten (10) tons per hour.
- (g) One (1) deck fabrication line including three (3) double-side roll coaters, three (3) electric infra-red drying ovens, and two (2) airless spray edge coaters, identified as Deck Line, with two (2) roll coaters constructed in October 1977 and a third roll coater and two (2) airless spray edge coaters constructed in February 1998, with a maximum production capacity of forty (40) tons of steel deck per hour. Under NSPS Subpart TT, the Deck Line's three (3) roll coaters, infra-red curing ovens, and water quench stations are considered an affected metal coil surface coating facility.

A.4 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

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

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, and are not subject to 326 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-5]
- (b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (c) Natural gas-fired space heaters with heat input equal to or less than ten million (10,000,000) Btu per hour.
- (d) Propane or LPG, or butane-fired space heaters with heat input equal to or less than six million (6,000,000) Btu per hour.
- (e) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 Btu/hour, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 Btu/hr.
- (f) Combustion source flame safety purging on startup.

- (g) 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.
- (h) The following VOC and HAP storage containers: Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.
- (i) Vessels storing lubricating oils, hydraulic oils, and machining fluids.
- (j) Packaging lubricants or greases.
- (k) Filling drums, pails or other packaging containers with lubricating oils, waxes, and greases.
- (l) Application of oils, greases, lubricants, or nonvolatile materials applied as temporary protective coatings.
- (m) Machining where an aqueous cutting coolant continuously floods the machining interface.
- (n) Cleaners and solvents characterized as follows:
  - (1) having vapor pressure equal to or less than 2kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100 o F); or
  - (2) having a vapor pressure equal to or less than 0.7 kPa; 5mmHg; or 0.1 psi measured at 20 o C (68 o F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (o) Infrared cure equipment.
- (p) Cutting 200,000 linear feet or less of one (1) inch plate for structural steel and bridge fabrication activities.
- (q) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
- (r) Any operation using aqueous solutions containing less than 1% by weight of VOCs, excluding HAPs.
- (s) Process vessel degassing and cleaning to prepare for internal repairs.
- (t) Purging gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (u) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (v) On-site fire and emergency response training approved by the department.
- (w) Natural gas turbines or reciprocating engines not exceeding 16,000 horsepower,
- (x) Stationary fire pumps, and

- (y) Activities with emissions equal to or less than the following thresholds: 5 tons per year PM or PM10, 10 tons per year SO<sub>2</sub>, NO<sub>x</sub>, or VOC, 0.2 tons per year Pb, 1.0 tons per year of a single HAP, or 2.5 tons per year of any combination of HAPs:
  - (1) Two (2) storage tanks, each capable of holding 6,000 gallons of water-based paint, associated with the Deck Line.
  - (2) Two (2) underground storage tanks, each capable of holding 12,000 gallons of diesel fuel, associated with the Truck Maintenance building.

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

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This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

## **SECTION B GENERAL CONDITIONS**

### **B.1 Definitions [326 IAC 2-7-1]**

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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.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]**

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- (a) The Part 70 Operating Permit Renewal, T033-25285-00027, is issued for a fixed term of five (5) years from the issuance date of this permit, 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 of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal 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, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

### **B.3 Term of Conditions [326 IAC 2-1.1-9.5]**

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Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### **B.4 Enforceability [326 IAC 2-7-7]**

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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 Severability [326 IAC 2-7-5(5)]**

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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.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]**

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

### **B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]**

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- (a) 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. Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. 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.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]**

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- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

- (i) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and
  - (ii) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent, with each submittal requiring certification.- One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (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 no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53, IGCN 1003  
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

- (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 2-7-5(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(13)] [326 IAC 1-6-3]

(a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

- (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.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit, where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, 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.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

The Permittee shall implement the PMPs.

(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 is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

**B.11 Emergency Provisions [326 IAC 2-7-16]**

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- (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.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe 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, 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 Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or  
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)  
Facsimile Number: 317-233-6865

- (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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53, IGCN 1003  
Indianapolis, Indiana 46204-2251

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 2-7-5(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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (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) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) 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 2-7 and any other applicable rules.
- (g) 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.

B.12 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced 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 Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

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

- (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, 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 reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
  - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
  - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
  - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
  - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

**B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]**

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- (a) All terms and conditions of permits established prior to T033-25285-00027 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised under 326 IAC 2-7-10.5, or
  - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

**B.14 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]**

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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 2-7-3 and 326 IAC 2-7-4(a).

**B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination**  
**[326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]**

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit 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 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (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 2-7-9(a)(3)]
- (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 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(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 2-7-9(c)]

**B.16 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]**

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- (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 2-7-4. 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53, IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

- (2) 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) 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 2-7 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, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

**B.17 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]**

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- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53, IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

**B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12(b)(2)]**

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- (a) No Part 70 permit revision or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

**B.19 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]**

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- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) without a 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 preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in 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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53, IGCN 1003  
Indianapolis, Indiana 46204-2251

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, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b),(c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

(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 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(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 is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(c)]

The Permittee may trade emissions increases and decreases at 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 2-7-20(c).

- (d) **Alternative Operating Scenarios [326 IAC 2-7-20(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 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

**B.20 Source Modification Requirement [326 IAC 2-7-10.5]**

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A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

**B.21 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-17-3-2]**

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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 Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, 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 2-7-11]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53, IGCN 1003  
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)] [326 IAC 2-1.1-7]

- (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) Except as provided in 326 IAC 2-7-19(e), 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 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

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

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 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]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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

- (a) Notification requirements apply to each owner or operator. 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  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53, IGCN 1003  
Indianapolis, Indiana 46204-2251

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 that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (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) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **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 to use an Indiana Accredited Asbestos inspector is not federally enforceable.

### **Testing Requirements [326 IAC 2-7-6(1)]**

#### **C.7 Performance Testing [326 IAC 3-6]**

- 
- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53, IGCN 1003  
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (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 Permittee 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.8 Compliance Requirements [326 IAC 2-1.1-11]**

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The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. 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 2-7-5(1)] [326 IAC 2-7-6(1)]**

##### **C.9 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

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Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53, IGCN 1003  
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.10 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ, approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

**Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]**

C.11 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.12 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.13 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

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Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system);  
or
  - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;

- (2) review of operation and maintenance procedures and records; and/or
- (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

**C.14 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]**

- (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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ, that retesting in one hundred eighty (180) 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 response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

**Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

**C.15 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]**

In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2004 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

- (a) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (b) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-50 IGCN 1003  
Indianapolis, Indiana 46204-2251

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

**C.16 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]**

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- (a) Records of all required monitoring data, reports and support information required by this permit 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 physically present or electronically accessible 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, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

**C.17 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]**

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- (a) The Permittee 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, except that 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. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (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) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

**Stratospheric Ozone Protection**

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

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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 applicable standards for recycling and emissions reduction.

## SECTION D.1

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) joist fabrication line including a GMAW welding area and two (2) dip-and-drain paint tanks, identified as Super Long Span Line, constructed in August 1991, with a maximum production capacity of ten (10) tons of steel joists per hour.
- (b) One (1) joist fabrication line including a GMAW welding area and two (2) dip-and drain paint tanks, identified as Long Span Line, constructed in September 1974, with the original solvent-based paint dip tanks replaced with water-based paint dip tanks in January 1993, with a maximum production capacity of ten (10) tons of steel joists per hour.
- (c) One (1) joist fabrication line including a GMAW welding area and a dip-and-drain paint tank, identified as Middle Span Line, constructed in March 1972, with the paint tank constructed in 2011, with a maximum production capacity of ten (10) tons of steel joists per hour.
- (d) One (1) joist fabrication line including a GMAW welding area and a vacuum-assisted flow coater, identified as Short Span Line, constructed in March 1972, with the original solvent-based paint dip tanks replaced with a water-based flow coater in September 1994, with a maximum production capacity of nine (9) tons of steel joists per hour.
- (e) One (1) joist fabrication line including a GMAW welding area, and two (2) dip-and drain paint tanks, identified as Combo Line, constructed in October 1985, with the original solvent-based paint dip tanks replaced with water-based paint dip tanks in September 1994, with a maximum production capacity of twelve (12) tons of steel joists per hour.
- (f) One (1) bridging fabrication line including a GMAW welding area, two (2) dip-and drain paint tanks, and a vacuum coater, identified as Bridging Line, with the welding area and solvent-based paint tanks constructed in March 1972, with the original solvent-based paint tanks replaced with water-based paint tanks and a vacuum coater added in December 1992, with a maximum production capacity of ten (10) tons per hour.
- (g) One (1) deck fabrication line including three (3) double-side roll coaters, three (3) electric infra-red drying ovens, and two (2) airless spray edge coaters, identified as Deck Line, with two (2) roll coaters constructed in October 1977 and a third roll coater and two (2) airless spray edge coaters constructed in February 1998, with a maximum production capacity of forty (40) tons of steel deck per hour.

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

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.1.1 PSD Minor Limit [326 IAC 2-2]

The VOC input to Super Long Span Line, Long Span Line, Middle Span Line, Short Span Line, Combo Line, Bridging Line, and Deck Line, shall not exceed 210 tons, combined, per twelve (12) consecutive month period with compliance determined at the end of each month. This usage limit is structured such that when including the VOC emissions from the insignificant activities and the VOC emissions from Nucor Fastener (plant ID: 033-00038), the source-wide VOC emissions remain less than 250 tons per year. Compliance with this limit renders the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

**D.1.2 Volatile Organic Compound (VOC) (Miscellaneous Metal Coating) [326 IAC 8-2-9]**

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- (a) Pursuant to 326 IAC 8-2-9(d)(2) (Miscellaneous Metal Coating Operations), the VOC content of the primer coatings delivered to the applicators of the Super Long Span Line, Long Span Line, Middle Span Line, Short Span Line, and Combo Line shall be limited to 3.5 pounds of VOC per gallon of coating less water, for forced warm air dried coatings.
- (b) Pursuant to 326 IAC 8-2-9(d)(2) (Miscellaneous Metal Coating Operations), the VOC content of the primer coatings delivered to the applicators of the Bridging Line shall be limited to 3.5 pounds of VOC per gallon of coating less water, for forced warm air dried coatings.
- (c) Pursuant to 326 IAC 8-2-9(d)(1) (Miscellaneous Metal Coating Operations), the VOC content of the clear coatings delivered to the applicators of the Deck Line edge coaters shall be limited to 4.3 pounds of VOC per gallon of coating less water.
- (d) Pursuant to 326 IAC 8-2-9(f) (Miscellaneous metal Coating), 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.1.3 Volatile Organic Compound (VOC) [326 IAC 8-2-4]**

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Pursuant to IAC 8-2-4 (Coil Coating Operations), the volatile organic compound (VOC) content of coatings applied to any flat metal sheets or strips that are delivered in rolls or coils to the Deck Line's three (3) roll coaters, infra-red curing ovens, and water quench stations shall be limited to 2.6 pounds of VOC per gallon of coating, excluding water except when otherwise specified in 40 CFR 50 Subpart TT.

**D.1.4 Preventative Maintenance Plan [326 IAC 2-7-5(13)]**

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A Preventive Maintenance Plan (PMP) is required for these facilities. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

**Compliance Determination Requirements**

**D.1.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-2] [326 IAC 8-1-4]**

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Compliance with the VOC content and usage limitations contained in Conditions D.1.1, D.1.3 and D.1.4 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

**Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

**D.1.6 Record Keeping Requirements**

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- (a) To document compliance with Conditions D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (8) below. Records maintained for (1) through (8) shall be taken as indicated below and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Conditions D.1.1 and D.1.2.
  - (1) VOC and HAP content of each coating material and solvent used;
  - (2) The amount of coating material and solvent used less water on daily basis.

- (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
  - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.
- (3) The cleanup solvent usage for each month;
  - (4) The total VOC usage for each month; and
  - (5) The weight of VOCs emitted for each compliance period.
  - (6) The VOC 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;
  - (7) The cleanup solvent usage for each month;
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.

#### D.1.7 Reporting Requirements

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A quarterly summary of the information to document compliance with Condition D.1.1 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.

## SECTION D.2

## EMISSIONS UNIT OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]: Specifically Regulated Insignificant Activities - Degreasers

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-5]

(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 2-7-5(1)]

#### D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

- (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.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure that the following control equipment requirements are met:
- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
    - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
    - (B) The solvent is agitated; or
    - (C) The solvent is heated.

- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
  - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
  - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
  - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9<sup>o</sup>C) (one hundred twenty degrees Fahrenheit (120<sup>o</sup>F)):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
    - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

## SECTION E.1 Standards of Performance for Metal Coil Coating NSPS

### Emissions Unit Description:

- (g) One (1) deck fabrication line including three (3) double-side roll coaters, three (3) electric infra-red drying ovens, and two (2) airless spray edge coaters, identified as Deck Line, with two (2) roll coaters constructed in October 1977 and a third roll coater and two (2) airless spray edge coaters constructed in February 1998, with a maximum production capacity of forty (40) tons of steel deck per hour. Under NSPS Subpart TT, the Deck Line's three (3) roll coaters, infra-red curing ovens, and water quench stations are considered an affected metal coil surface coating facility.

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

### New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

#### E.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A] [326 IAC 12]

The provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the Deck Line's three (3) roll coaters, infra-red curing ovens, and water quench stations except when otherwise specified in 40 CFR 60 Subpart TT.

#### E.1.2 Standards of Performance for Metal Coil Coating NSPS [40 CFR Part 60, Subpart TT]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart TT, which is incorporated by reference and included as Attachment A to this permit, for the Deck Line's three (3) roll coaters, infra-red curing ovens, and water quench stations:

- (a) 40 CFR 60.460
- (b) 40 CFR 60.461
- (c) 40 CFR 60.462(a)(1)
- (d) 40 CFR 60.463(a), (b), and (c)(1)
- (e) 40 CFR 60.464(a)
- (f) 40 CFR 60.465(a), (c), and (e)
- (g) 40 CFR 60.466(a)(1) and (b)

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

### PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Nucor Vulcraft Group  
Source Address: 6610 County Road 60, St. Joe, Indiana 46785  
Part 70 Permit No.: T033-25285-00027

**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:

- Annual Compliance Certification Letter
- Test Result (specify): \_\_\_\_\_
- Report (specify): \_\_\_\_\_
- Notification (specify): \_\_\_\_\_
- Affidavit (specify): \_\_\_\_\_
- 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 AND ENFORCEMENT BRANCH  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-0178  
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Nucor Vulcraft Group  
Source Address: 6610 County Road 60, St. Joe, Indiana 46785  
Part 70 Permit No.: T033-25285-00027

**This form consists of 2 pages**

**Page 1 of 2**

|                          |  |
|--------------------------|--|
| <input type="checkbox"/> | This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none"><li>• The Permittee must notify the Office of Air Quality (OAQ), no later than four (4) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance and Enforcement Branch); and</li><li>• The Permittee must submit notice in writing or by facsimile no later than two (2) days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.</li></ul> |
|--------------------------|--|

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? <input type="checkbox"/> Y <input type="checkbox"/> N<br>Describe:  |
| Type of Pollutants Emitted: <input type="checkbox"/> TSP <input type="checkbox"/> PM-10 <input type="checkbox"/> SO <sub>2</sub> <input type="checkbox"/> VOC <input type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> 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: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**Part 70 Quarterly Report**

Source Name: Nucor Vulcraft Group  
Source Address: 6610 County Road 60, St. Joe, Indiana 46785  
Part 70 Permit No.: T033-25285-00027  
Facility: Super Long Span Line, Long Span Line, Middle Span Line, Short Span Line,  
Combo Line, Bridging Line, and Deck Line  
Parameter: VOC Usage  
Limit: 210 tons/year with compliance determined at the end of each month

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

| Month | VOC Usage for This Month (gallons) | VOC Usage for Previous 11 Months (gallons) | VOC Usage for 12-Month Period (gallons) |
|-------|------------------------------------|--|---|
|       |                                    |  |   |
|       |                                    |  |   |
|       |                                    |  |   |

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_

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

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

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

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

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**PART 70 OPERATING PERMIT  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Nucor Vulcraft Group  
Source Address: 6610 County Road 60, St. Joe, Indiana 46785  
Part 70 Permit No.: T033-25285-00027

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

Page 1 of 2

|   |                               |
|---|-------------------------------|
| <p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit shall be reported according to the schedule stated in the applicable requirement and does 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> |                               |
| <input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.  |                               |
| <input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD  |                               |
| <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>                           |                               |
| <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: \_\_\_\_\_

## Attachment A: Standards of Performance for Metal Coil Coating NSPS [40 CFR Part 60, Subpart TT]

### Subpart TT—Standards of Performance for Metal Coil Surface Coating

**Source:** 47 FR 49612, Nov. 1, 1982, unless otherwise noted.

#### § 60.460 Applicability and designation of affected facility.

(a) The provisions of this subpart apply to the following affected facilities in a metal coil surface coating operation: each prime coat operation, each finish coat operation, and each prime and finish coat operation combined when the finish coat is applied wet on wet over the prime coat and both coatings are cured simultaneously.

(b) This subpart applies to any facility identified in paragraph (a) of this section that commences construction, modification, or reconstruction after January 5, 1981.

#### § 60.461 Definitions.

(a) All terms used in this subpart not defined below are given the same meaning as in the Act or in subpart A of this part.

*Coating* means any organic material that is applied to the surface of metal coil.

*Coating application station* means that portion of the metal coil surface coating operation where the coating is applied to the surface of the metal coil. Included as part of the coating application station is the flashoff area between the coating application station and the curing oven.

*Curing oven* means the device that uses heat or radiation to dry or cure the coating applied to the metal coil.

*Finish coat operation* means the coating application station, curing oven, and quench station used to apply and dry or cure the final coating(s) on the surface of the metal coil. Where only a single coating is applied to the metal coil, that coating is considered a finish coat.

*Metal coil surface coating operation* means the application system used to apply an organic coating to the surface of any continuous metal strip with thickness of 0.15 millimeter (mm) (0.006 in.) or more that is packaged in a roll or coil.

*Prime coat operation* means the coating application station, curing oven, and quench station used to apply and dry or cure the initial coating(s) on the surface of the metal coil.

*Quench station* means that portion of the metal coil surface coating operation where the coated metal coil is cooled, usually by a water spray, after baking or curing.

*VOC content* means the quantity, in kilograms per liter of coating solids, of volatile organic compounds (VOC's) in a coating.

(b) All symbols used in this subpart not defined below are given the same meaning as in the Act and in subpart A of this part.

$C_a$ = the VOC concentration in each gas stream leaving the control device and entering the atmosphere (parts per million by volume, as carbon).

$C_b$ = the VOC concentration in each gas stream entering the control device (parts per million by volume, as carbon).

$C_f$ = the VOC concentration in each gas stream emitted directly to the atmosphere (parts per million by volume, as carbon).

$D_c$ = density of each coating, as received (kilograms per liter).

$D_d$ = density of each VOC-solvent added to coatings (kilograms per liter).

$D_r$ = density of VOC-solvent recovered by an emission control device (kilograms per liter).

$E$  = VOC destruction efficiency of the control device (fraction).

$F$  = the proportion of total VOC's emitted by an affected facility that enters the control device (fraction).

$G$  = volume-weighted average mass of VOC's in coatings consumed in a calendar month per unit volume of coating solids applied (kilograms per liter).

$L_c$  = the volume of each coating consumed, as received (liters).

$L_d$  = the volume of each VOC-solvent added to coatings (liters).

$L_r$  = the volume of VOC-solvent recovered by an emission control device (liters).

$L_s$  = the volume of coating solids consumed (liters).

$M_d$  = the mass of VOC-solvent added to coatings (kilograms).

$M_o$  = the mass of VOC's in coatings consumed, as received (kilograms).

$M_r$  = the mass of VOC's recovered by an emission control device (kilograms).

$N$  = the volume-weighted average mass of VOC emissions to the atmosphere per unit volume of coating solids applied (kilograms per liter).

$Q_a$  = the volumetric flow rate of each gas stream leaving the control device and entering the atmosphere (dry standard cubic meters per hour).

$Q_b$  = the volumetric flow rate of each gas stream entering the control device (dry standard cubic meters per hour).

$Q_f$  = the volumetric flow rate of each gas stream emitted directly to the atmosphere (dry standard cubic meters per hour).

$R$  = the overall VOC emission reduction achieved for an affected facility (fraction).

$S$  = the calculated monthly allowable emission limit (kilograms of VOC per liter of coating solids applied).

$V_s$  = the proportion of solids in each coating, as received (fraction by volume).

$W_o$  = the proportion of VOC's in each coating, as received (fraction by weight).

#### **§ 60.462 Standards for volatile organic compounds.**

(a) On and after the date on which §60.8 requires a performance test to be completed, each owner or operator subject to this subpart shall not cause to be discharged into the atmosphere more than:

(1) 0.28 kilogram VOC per liter (kg VOC/ l) of coating solids applied for each calendar month for each affected facility that does not use an emission control device(s); or

(2) 0.14 kg VOC/ l of coating solids applied for each calendar month for each affected facility that continuously uses an emission control device(s) operated at the most recently demonstrated overall efficiency; or

(3) 10 percent of the VOC's applied for each calendar month (90 percent emission reduction) for each affected facility that continuously uses an emission control device(s) operated at the most recently demonstrated overall efficiency; or

(4) A value between 0.14 (or a 90-percent emission reduction) and 0.28 kg VOC/ l of coating solids applied for each calendar month for each affected facility that intermittently uses an emission control device operated at the most recently demonstrated overall efficiency.

**§ 60.463 Performance test and compliance provisions.**

(a) Section 60.8(d) and (f) do not apply to the performance test.

(b) The owner or operator of an affected facility shall conduct an initial performance test as required under §60.8(a) and thereafter a performance test for each calendar month for each affected facility according to the procedures in this section.

(c) The owner or operator shall use the following procedures for determining monthly volume-weighted average emissions of VOC's in kg/ l of coating solids applied.

(1) An owner or operator shall use the following procedures for each affected facility that does not use a capture system and control device to comply with the emission limit specified under §60.462(a)(1). The owner or operator shall determine the composition of the coatings by formulation data supplied by the manufacturer of the coating or by an analysis of each coating, as received, using Method 24. The Administrator may require the owner or operator who uses formulation data supplied by the manufacturer of the coatings to determine the VOC content of coatings using Method 24 or an equivalent or alternative method. The owner or operator shall determine the volume of coating and the mass of VOC-solvent added to coatings from company records on a monthly basis. If a common coating distribution system serves more than one affected facility or serves both affected and existing facilities, the owner or operator shall estimate the volume of coating used at each affected facility by using the average dry weight of coating and the surface area coated by each affected and existing facility or by other procedures acceptable to the Administrator.

(i) Calculate the volume-weighted average of the total mass of VOC's consumed per unit volume of coating solids applied during each calendar month for each affected facility, except as provided under paragraph (c)(1)(iv) of this section. The weighted average of the total mass of VOC's used per unit volume of coating solids applied each calendar month is determined by the following procedures.

(A) Calculate the mass of VOC's used ( $M_o + M_d$ ) during each calendar month for each affected facility by the following equation:

$$M_o + M_d = \sum_{i=1}^n L_{ci} D_{ci} W_{oi} + \sum_{j=1}^m L_{dj} D_{dj} \quad \text{Equation 1}$$

( $\sum L_{dj} D_{dj}$  will be 0 if no VOC solvent is added to the coatings, as received)

where

n is the number of different coatings used during the calendar month, and

m is the number of different VOC solvents added to coatings used during the calendar month.

(B) Calculate the total volume of coating solids used ( $L_s$ ) in each calendar month for each affected facility by the following equation:

$$L_s = \sum_{i=1}^n V_{si} L_{ti} \quad \text{Equation 2}$$

Where:

n is the number of different coatings used during the calendar month.

(C) Calculate the volume-weighted average mass of VOC's used per unit volume of coating solids applied (G) during the calendar month for each affected facility by the following equation:

$$G = \frac{M_o + M_d}{L_s} \quad \text{Equation 3}$$

(ii) Calculate the volume-weighted average of VOC emissions to the atmosphere (N) during the calendar month for each affected facility by the following equation:

$$N = G \quad \text{Equation 4}$$

(iii) Where the volume-weighted average mass of VOC's discharged to the atmosphere per unit volume of coating solids applied (N) is equal to or less than 0.28 kg/ l, the affected facility is in compliance.

(iv) If each individual coating used by an affected facility has a VOC content, as received, that is equal to or less than 0.28 kg/ l of coating solids, the affected facility is in compliance provided no VOC's are added to the coatings during distribution or application.

(2) An owner or operator shall use the following procedures for each affected facility that continuously uses a capture system and a control device that destroys VOC's (e.g., incinerator) to comply with the emission limit specified under §60.462(a) (2) or (3).

(i) Determine the overall reduction efficiency (R) for the capture system and control device.

For the initial performance test, the overall reduction efficiency (R) shall be determined as prescribed in paragraphs (c)(2)(i) (A), (B), and (C) of this section. In subsequent months, the owner or operator may use the most recently determined overall reduction efficiency (R) for the performance test, providing control device and capture system operating conditions have not changed. The procedure in paragraphs (c)(2)(i) (A), (B), and (C) of this section, shall be repeated when directed by the Administrator or when the owner or operator elects to operate the control device or capture system at conditions different from the initial performance test.

(A) Determine the fraction (F) of total VOC's emitted by an affected facility that enters the control device using the following equation:

$$F = \frac{\sum_{i=1}^l C_{in} Q_{in}}{\sum_{i=1}^l C_{in} Q_{in} + \sum_{j=1}^p C_{out} Q_{out}}$$

Equation 5

Where:

l is the number of gas streams entering the control device, and

p is the number of gas streams emitted directly to the atmosphere.

(B) Determine the destruction efficiency of the control device (E) using values of the volumetric flow rate of each of the gas streams and the VOC content (as carbon) of each of the gas streams in and out of the device by the following equation:

$$E = \frac{\sum_{i=1}^n Q_{in} C_{in} - \sum_{j=1}^m Q_{out} C_{out}}{\sum_{i=1}^n Q_{in} C_{in}}$$

Equation 6

Where:

n is the number of gas streams entering the control device, and

m is the number of gas streams leaving the control device and entering the atmosphere.

The owner or operator of the affected facility shall construct the VOC emission reduction system so that all volumetric flow rates and total VOC emissions can be accurately determined by the applicable test methods and procedures specified in §60.466. The owner or operator of the affected facility shall construct a temporary enclosure around the coating applicator and flashoff area during the performance test for the purpose of evaluating the capture efficiency of the system. The enclosure must be maintained at a negative pressure to ensure that all VOC emissions are measurable. If a permanent enclosure exists in the affected facility prior to the performance test and the Administrator is satisfied that the enclosure is adequately containing VOC emissions, no additional enclosure is required for the performance test.

(C) Determine overall reduction efficiency (R) using the following equation:

$$R=EF \quad \text{Equation 7}$$

If the overall reduction efficiency (R) is equal to or greater than 0.90, the affected facility is in compliance and no further computations are necessary. If the overall reduction efficiency (R) is less than 0.90, the average total VOC emissions to the atmosphere per unit volume of coating solids applied (N) shall be computed as follows.

(ii) Calculate the volume-weighted average of the total mass of VOC's per unit volume of coating solids applied (G) during each calendar month for each affected facility using equations in paragraphs (c)(1)(i) (A), (B), and (C) of this section.

(iii) Calculate the volume-weighted average of VOC emissions to the atmosphere (N) during each calendar month by the following equation:

$$N=G(1-R) \quad \text{Equation 8}$$

(iv) If the volume-weighted average mass of VOC's emitted to the atmosphere for each calendar month (N) is less than or equal to 0.14 kg/ l of coating solids applied, the affected facility is in compliance. Each monthly calculation is a performance test.

(3) An owner or operator shall use the following procedure for each affected facility that uses a control device that recovers the VOC's (e.g., carbon adsorber) to comply with the applicable emission limit specified under §60.462(a) (2) or (3).

(i) Calculate the total mass of VOC's consumed ( $M_o+M_d$ ) during each calendar month for each affected facility using equation (1).

(ii) Calculate the total mass of VOC's recovered ( $M_r$ ) during each calendar month using the following equation:

$$M_r = L_r D_r \quad \text{Equation 9}$$

(iii) Calculate the overall reduction efficiency of the control device (R) for each calendar month for each affected facility using the following equation:

$$R = \frac{M_r}{M_o + M_d} \quad \text{Equation 10}$$

If the overall reduction efficiency (R) is equal to or greater than 0.90, the affected facility is in compliance and no further computations are necessary. If the overall reduction efficiency (R) is less than 0.90, the average total VOC emissions to the atmosphere per unit volume of coating solids applied (N) must be computed as follows.

(iv) Calculate the total volume of coating solids consumed ( $L_s$ ) and the volume-weighted average of the total mass of VOC's per unit volume of coating solids applied (G) during each calendar month for each affected facility using equations in paragraphs (c)(1)(i) (B) and (C) of this section.

(v) Calculate the volume-weighted average mass of VOC's emitted to the atmosphere (N) for each calendar month for each affected facility using equation (8).

(vi) If the weighted average mass of VOC's emitted to the atmosphere for each calendar month (N) is less than or equal to 0.14 kg/ l of coating solids applied, the affected facility is in compliance. Each monthly calculation is a performance test.

(4) An owner or operator shall use the following procedures for each affected facility that intermittently uses a capture system and a control device to comply with the emission limit specified in §60.462(a)(4).

(i) Calculate the total volume of coating solids applied without the control device in operation ( $L_{sn}$ ) during each calendar month for each affected facility using the following equation:

$$L_{sn} = \sum_{i=1}^n V_{si} L_{ci} \quad \text{Equation 11}$$

Where:

n is the number of coatings used during the calendar month without the control device in operation.

(ii) Calculate the total volume of coating solids applied with the control device in operation ( $L_{sc}$ ) during each calendar month for each affected facility using the following equation:

$$L_{sc} = \sum_{i=1}^n V_{\bar{x}} L_{ci} \quad \text{Equation 12}$$

Where:

n is the number of coatings used during the calendar month with the control device in operation.

(iii) Calculate the mass of VOC's used without the control device in operation ( $M_{on}+M_{dn}$ ) during each calendar month for each affected facility using the following equation:

$$M_{on} + M_{dn} + \sum_{i=1}^n L_{ci} D_{ci} W_{oi} + \sum_{j=1}^m L_{dj} D_{dj} \quad \text{Equation 13}$$

Where:

n is the number of different coatings used without the control device in operation during the calendar month, and

m is the number of different VOC-solvents added to coatings used without the control device in operation during the calendar month.

(iv) Calculate the volume-weighted average of the total mass of VOC's consumed per unit volume of coating solids applied without the control device in operation ( $G_n$ ) during each calendar month for each affected facility using the following equation:

$$G_n = \frac{M_{on} + M_{dn}}{L_{sn}} \quad \text{Equation 14}$$

(v) Calculate the mass of VOC's used with the control device in operation ( $M_{oc}+M_{dc}$ ) during each calendar month for each affected facility using the following equation:

$$M_{oc} + M_{dc} = \sum_{i=1}^n L_{ci} D_{ci} W_{oi} + \sum_{j=1}^m L_{dj} D_{dj} \quad \text{Equation 15}$$

Where:

n is the number of different coatings used with the control device in operation during the calendar month, and

m is the number of different VOC-solvents added to coatings used with the control device in operation during the calendar month.

(vi) Calculate the volume-weighted average of the total mass of VOC's used per unit volume of coating solids applied with the control device in operation ( $G_c$ ) during each calendar month for each affected facility using the following equation:

$$G_c = \frac{M_{oc} + M_{dc}}{L_{sn}} \quad \text{Equation 16}$$

(vii) Determine the overall reduction efficiency (R) for the capture system and control device using the procedures in paragraphs (c)(2)(i) (A), (B), and (C) or paragraphs (c)(3) (i), (ii), and (iii) of this section, whichever is applicable.

(viii) Calculate the volume-weighted average of VOC emissions to the atmosphere (N) during each calendar month for each affected facility using the following equation:

$$N = \frac{G_n L_{sn} + G_c L_{sc} (1 - R)}{L_{sn} + L_{sc}} \quad \text{Equation 17}$$

Equation 17

(ix) Calculate the emission limit(s) for each calendar month for each affected facility using the following equation:

$$S = \frac{0.28 L_{sn} + 0.1 G_c L_{sc}}{L_{sn} + L_{sc}}$$

or

$$\frac{0.28 L_{sn} + 0.14 L_{sc}}{L_{sn} + L_{sc}} \quad \text{Equation 18}$$

whichever is greater.

(x) If the volume-weighted average mass of VOC's emitted to the atmosphere for each calendar month (N) is less than or equal to the calculated emission limit (S) for the calendar month, the affected facility is in compliance. Each monthly calculation is a performance test.

[47 FR 49612, Nov. 1, 1982; 48 FR 1056, Jan. 10, 1983, as amended at 65 FR 61761, Oct. 17, 2000]

#### **§ 60.464 Monitoring of emissions and operations.**

(a) Where compliance with the numerical limit specified in §60.462(a) (1) or (2) is achieved through the use of low VOC-content coatings without the use of emission control devices or through the use of higher VOC-content coatings in conjunction with emission control devices, the owner or operator shall compute and record the average VOC content of coatings applied during each calendar month for each affected facility, according to the equations provided in §60.463.

(b) Where compliance with the limit specified in §60.462(a)(4) is achieved through the intermittent use of emission control devices, the owner or operator shall compute and record for each affected facility the average VOC content of coatings applied during each calendar month according to the equations provided in §60.463.

(c) If thermal incineration is used, each owner or operator subject to the provisions of this subpart shall install, calibrate, operate, and maintain a device that continuously records the combustion temperature of any effluent gases incinerated to achieve compliance with §60.462(a)(2), (3), or (4). This device shall have an accuracy of  $\pm 2.5$  °C. or  $\pm 0.75$  percent of the temperature being measured expressed in degrees Celsius, whichever is greater. Each owner or operator shall also record all periods (during actual coating operations) in excess of 3 hours during which the average temperature in any thermal incinerator used to control emissions from an affected facility remains more than 28 °C (50 °F) below the temperature at which compliance with §60.462(a)(2), (3), or (4) was demonstrated during the most recent measurement of incinerator efficiency required by §60.8. The records required by §60.7 shall identify each such occurrence and its duration. If catalytic incineration is used, the owner or operator shall install, calibrate, operate, and maintain a device to monitor and record continuously the gas temperature both upstream and downstream of the incinerator catalyst bed. This device shall have an accuracy of  $\pm 2.5$  °C. or  $\pm 0.75$  percent of the temperature being measured expressed in degrees Celsius, whichever is greater. During coating operations, the owner or operator shall record all periods in excess of 3 hours where the average difference between the temperature upstream and downstream of the incinerator catalyst bed remains below 80 percent of the temperature difference at which compliance was demonstrated during the most recent measurement of incinerator efficiency or when the inlet temperature falls more than 28 °C (50 °F) below the temperature at which compliance with §60.462(a)(2), (3), or (4) was demonstrated during the most recent measurement of incinerator efficiency required by §60.8. The records required by §60.7 shall identify each such occurrence and its duration.

[47 FR 49612, Nov. 1, 1982; 48 FR 1056, Jan. 10, 1983, as amended at 65 FR 61761, Oct. 17, 2000]

#### **§ 60.465 Reporting and recordkeeping requirements.**

(a) Where compliance with the numerical limit specified in §60.462(a) (1), (2), or (4) is achieved through the use of low VOC-content coatings without emission control devices or through the use of higher VOC-content coatings in conjunction with emission control devices, each owner or operator subject to the provisions of this subpart shall include in the initial compliance report required by §60.8 the weighted average of the VOC content of coatings used during a period of one calendar month for each affected facility. Where compliance with §60.462(a)(4) is achieved

through the intermittent use of a control device, reports shall include separate values of the weighted average VOC content of coatings used with and without the control device in operation.

(b) Where compliance with §60.462(a)(2), (3), or (4) is achieved through the use of an emission control device that destroys VOC's, each owner or operator subject to the provisions of this subpart shall include the following data in the initial compliance report required by §60.8:

(1) The overall VOC destruction rate used to attain compliance with §60.462(a)(2), (3), or (4) and the calculated emission limit used to attain compliance with §60.462(a)(4); and

(2) The combustion temperature of the thermal incinerator or the gas temperature, both upstream and downstream of the incinerator catalyst bed, used to attain compliance with §60.462(a)(2), (3), or (4).

(c) Following the initial performance test, the owner or operator of an affected facility shall identify, record, and submit a written report to the Administrator every calendar quarter of each instance in which the volume-weighted average of the local mass of VOC's emitted to the atmosphere per volume of applied coating solids (N) is greater than the limit specified under §60.462. If no such instances have occurred during a particular quarter, a report stating this shall be submitted to the Administrator semiannually.

(d) The owner or operator of each affected facility shall also submit reports at the frequency specified in §60.7(c) when the incinerator temperature drops as defined under §60.464(c). If no such periods occur, the owner or operator shall state this in the report.

(e) Each owner or operator subject to the provisions of this subpart shall maintain at the source, for a period of at least 2 years, records of all data and calculations used to determine monthly VOC emissions from each affected facility and to determine the monthly emission limit, where applicable. Where compliance is achieved through the use of thermal incineration, each owner or operator shall maintain, at the source, daily records of the incinerator combustion temperature. If catalytic incineration is used, the owner or operator shall maintain at the source daily records of the gas temperature, both upstream and downstream of the incinerator catalyst bed.

[47 FR 49612, Nov. 1, 1982, as amended at 55 FR 51383, Dec. 13, 1990; 56 FR 20497, May 3, 1991; 65 FR 61761, Oct. 17, 2000]

#### **§ 60.466 Test methods and procedures.**

(a) The reference methods in appendix A to this part, except as provided under §60.8(b), shall be used to determine compliance with §60.462 as follows:

(1) Method 24, or data provided by the formulator of the coating, shall be used for determining the VOC content of each coating as applied to the surface of the metal coil. In the event of a dispute, Method 24 shall be the reference method. When VOC content of waterborne coatings, determined by Method 24, is used to determine compliance of affected facilities, the results of the Method 24 analysis shall be adjusted as described in Section 12.6 of Method 24;

(2) Method 25, both for measuring the VOC concentration in each gas stream entering and leaving the control device on each stack equipped with an emission control device and for measuring the VOC concentration in each gas stream emitted directly to the atmosphere;

(3) Method 1 for sample and velocity traverses;

(4) Method 2 for velocity and volumetric flow rate;

(5) Method 3 for gas analysis; and

(6) Method 4 for stack gas moisture.

(b) For Method 24, the coating sample must be at least a 1-liter sample taken at a point where the sample will be representative of the coating as applied to the surface of the metal coil.

(c) For Method 25, the sampling time for each of three runs is to be at least 60 minutes, and the minimum sampling volume is to be at least 0.003 dscm (0.11 dscf); however, shorter sampling times or smaller volumes, when necessitated by process variables or other factors, may be approved by the Administrator.

(d) The Administrator will approve testing of representative stacks on a case-by-case basis if the owner or operator can demonstrate to the satisfaction of the Administrator that testing of representative stacks yields results comparable to those that would be obtained by testing all stacks.

[47 FR 49612, Nov. 1, 1982, as amended at 51 FR 22938, June 24, 1986; 65 FR 61761, Oct. 17, 2000]

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

Technical Support Document (TSD)  
for a Part 70 Minor Source Modification and  
a Part 70 Minor Permit Modification

|  |
|--|
| <b>Source Description and Location</b> |
|--|

|   |  |
|---|--|
| Source Name:                            | Nucor Vulcraft - St. Joe Division            |
| Source Location:                        | 6610 County Road 60, St. Joe, Indiana, 46785 |
| County:                                 | DeKalb                                       |
| SIC Code:                               | 3441, 3444                                   |
| Operation Permit Renewal No.:           | T 033-25285-00027                            |
| Operation Permit Renewal Issuance Date: | September 10, 2008                           |
| Minor Source Modification No.:          | 033-29898-00027                              |
| Minor Permit Modification No.:          | 033-29931-00027                              |
| Permit Reviewer:                        | Kimberly Cottrell                            |

|                          |
|--------------------------|
| <b>Source Definition</b> |
|--------------------------|

This company consists of two (2) plants:

- (a) NUCOR Vulcraft Group – St. Joe Division is located at 6610 County Road 60, St. Joe, Indiana 46785; and,
- (b) Nucor Fastener is located at 6730 County Road 60, St. Joe, Indiana 46785.

On October 11, 2006, in Significant Permit Modification (033-22929-00027), a source determination concluded that NUCOR Vulcraft Group – St. Joe Division and Nucor Fastener are under the common control of Nucor Corporation, and will be considered one source. These two plants are considered one source because they are located on adjacent properties, are under common ownership, and belong to the same industrial grouping. Nucor Fastener's operations are included as part of NUCOR Vulcraft's Part 70 operating source. Therefore, the term "source" in the Part 70 documents refers to both NUCOR Vulcraft Group – St. Joe Division and Nucor Fastener as one source.

Separate Part 70 renewal permits will be issued to NUCOR Vulcraft Group – St. Joe Division with Permit No.: T033-25285-00027 and Nucor Fastener with Permit No.: T033-20219-00038 solely for administrative purposes.

|                           |
|---------------------------|
| <b>Existing Approvals</b> |
|---------------------------|

The source was issued Part 70 Operating Permit No. T 033-25285-00027 on September 10, 2008. Since issuance of the renewal, the source has not received any other approvals.

|                                 |
|---------------------------------|
| <b>County Attainment Status</b> |
|---------------------------------|

The source is located in DeKalb County.

| <b>Pollutant</b>   | <b>Designation</b>  |
|--|---|
| SO <sub>2</sub>  | Better than national standards.   |
| CO   | Unclassifiable or attainment effective November 15, 1990.   |
| O <sub>3</sub>   | Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. <sup>1</sup> |
| PM <sub>10</sub>   | Unclassifiable effective November 15, 1990.   |
| NO <sub>2</sub>  | Cannot be classified or better than national standards.   |
| Pb   | Not designated.   |
| <sup>1</sup> Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. |   |
| Unclassifiable or attainment effective April 5, 2005, for PM <sub>2.5</sub> .  |   |

- (a) **Ozone Standards**  
 Volatile organic compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. DeKalb County has been designated as attainment or unclassifiable 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.
- (b) **PM<sub>2.5</sub>**  
 DeKalb County has been classified as attainment for PM<sub>2.5</sub>. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM<sub>2.5</sub> emissions, and the effective date of these rules was July 15<sup>th</sup>, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions until 326 IAC 2-2 is revised.
- (c) DeKalb County has been classified as attainment or unclassifiable for PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>2</sub>, CO, and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) **Fugitive Emissions**  
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, and this source is not subject to a New Source Performance Standard (NSPS) that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

|                      |
|----------------------|
| <b>Source Status</b> |
|----------------------|

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

| <b>Pollutant</b> | <b>Nucor Vulcraft Emissions (ton/yr)</b> | <b>Nucor Fastener Emissions (ton/yr)</b> | <b>Total Source Emissions (ton/yr)</b> |
|------------------|--|--|--|
| CO               | 8.97                                     | 63.91                                    | 72.88                                  |

| <b>Pollutant</b>                | <b>Nucor Vulcraft Emissions (ton/yr)</b> | <b>Nucor Fastener Emissions (ton/yr)</b> | <b>Total Source Emissions (ton/yr)</b> |
|---------------------------------|--|--|--|
| NO <sub>x</sub>                 | 10.68                                    | 84.68                                    | 95.36                                  |
| PM                              | 11.67                                    | 104.79                                   | 116.46                                 |
| PM <sub>10</sub>                | 11.67                                    | 108.73                                   | 120.40                                 |
| SO <sub>2</sub>                 | 0.06                                     | 6.84                                     | 6.90                                   |
| VOC                             | 210                                      | 35.75                                    | 245.75                                 |
| HAP Manganese                   | 7.14                                     | -  | 7.14                                   |
| HAP from Remediation Activities | 0.95                                     | -  | 0.95                                   |
| HAP Hexane                      | 0.20                                     | 1.44                                     | 1.64                                   |
| Total HAP                       | 8.29                                     | 1.44                                     | 9.73                                   |

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).
- (c) These emissions are based upon Part 70 Operating Permit Renewal No. T033-25285-00027 (NUCOR Vulcraft Group – St. Joe Division), Part 70 Operating Permit Renewal No. T033-20219-00038 (Nucor Fastener), Minor Source Modification No.: 033-25880-00038 (Nucor Fastener), and Significant Permit Modification No.: 033-27585-00038 (Nucor Fastener).

**Description of Proposed Modification**

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Nucor Vulcraft - St. Joe Division on November 17, 2010, relating to replacement of the vacuum assisted flow coater on the Middle Span Line with a dip-and-drain paint tank. The following is a list of the modified emission unit:

One (1) joist fabrication line including a GMAW welding area and a ~~vacuum-assisted flow Coater~~ **dip-and-drain paint tank**, identified as Middle Span Line, constructed in March 1972, with the **paint tank constructed in 2011**, ~~original solvent-based paint dip tanks replaced with a water-based flow coater in October 1996~~, with a maximum production capacity of ten (10) tons of steel joists per hour.

**Enforcement Issues**

There are no pending enforcement actions.

### Stack Summary

There are no new or modified stacks due to this modification.

### Emission Calculations

The calculations submitted by the applicant have been verified and found to be accurate and correct. These calculations are provided in Appendix A of this document.

### Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

| <b>Pollutant</b> | <b>Potential To Emit (ton/yr)</b> |
|------------------|-----------------------------------|
| CO               | 0                                 |
| NO <sub>x</sub>  | 0                                 |
| PM               | 0                                 |
| PM <sub>10</sub> | 0                                 |
| SO <sub>2</sub>  | 0                                 |
| VOC              | 18.4                              |
| Single HAP       | 0                                 |
| Total HAPs       | 0                                 |

This source modification is subject to 326 IAC 2-7-10.5(d)(3)(B)(iii) because the uncontrolled emissions from the modification are less than twenty-five (25) tons per year, and greater than ten (10) tons per year of VOC. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a minor permit modification issued pursuant to 326 IAC 2-7-12(b) because it does not require any changes to existing emission limits, monitoring, record keeping, or reporting requirements.

### Permit Level Determination – PSD

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

| <b>Table 4: Potential to Emit after Issuance (ton/yr)</b> |           |                       |           |                        |                       |            |
|---|-----------|-----------------------|-----------|------------------------|-----------------------|------------|
| <b>Process / Emission Unit</b>                            | <b>CO</b> | <b>NO<sub>x</sub></b> | <b>PM</b> | <b>PM<sub>10</sub></b> | <b>SO<sub>2</sub></b> | <b>VOC</b> |
| dip-and-drain paint tank                                  | 0         | 0                     | 0         | 0                      | 0                     | 18.4       |
| Total for Modification                                    | 0         | 0                     | 0         | 0                      | 0                     | 18.4       |
| Total Source Emissions Before Modification                | 72.88     | 95.36                 | 116.46    | 120.40                 | 6.90                  | 245.75     |
| Total Source Emissions Before Modification                | 72.88     | 95.36                 | 116.46    | 120.40                 | 6.90                  | 245.75     |
| Increase in Emissions due to Modification                 | 0         | 0                     | 0         | 0                      | 0                     | 0          |
| PSD Significant Level                                     | 250       | 250                   | 250       | 250                    | 250                   | 250        |

This modification to an existing minor stationary source is not major because the emissions increase is less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

**Federal Rule Applicability Determination**

There are no changes to Federal Rule Applicability as a result of this modification.

- (a) **New Source Performance Standards (NSPS)**  
 There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this proposed modification.
- (b) **Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAPs)**  
 There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14 and 40 CFR Part 61) included in the permit for this proposed modification.
- (c) **Part 63 National Emission Standards for Hazardous Air Pollutants (NESHAPs)**  
 There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 20 and 40 CFR Part 63) included in the permit for this proposed modification.

The new dip-and-drain paint tank is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Paint Stripping and Miscellaneous Surface Coating Operations - Area Sources under 40 CFR 63, Subpart HHHHHH, because the coating used does not contain any metallic HAP.

The new dip-and-drain paint tank is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Metal Fabrication and Finishing Source Nine Categories (area sources) under 40 CFR 63, Subpart XXXXXX, because the coating used does not use materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP), defined to be the compounds of cadmium, chromium, lead, manganese, and nickel.

- (d) **Compliance Assurance Monitoring (CAM)**  
 Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:
  - (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;

- (2) is subject to an emission limitation or standard for that pollutant; and
- (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The proposed modification will not add any additional control devices for the dip-and-drain paint tank; therefore, the requirements of 40 CFR Part 64, CAM, are not applicable to any of the new and modified emission units as part of this modification.

#### **State Rule Applicability Determination**

There are no changes to State Rule Applicability as a result of this modification.

#### **Compliance Determination and Monitoring Requirements**

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in 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.

##### **Compliance Determination Requirements**

There are no changes to the Compliance Determination Requirements as a result of this modification.

##### **Compliance Monitoring Requirements**

There are no changes to the Compliance Monitoring Requirements as a result of this modification.

#### **Proposed Changes**

The changes listed below have been made to Part 70 Operating Permit Renewal No. T 033-25285-00027. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

**Change No. 1** The emission unit descriptions provided in Condition A.3 and Section D.1 are updated as follows:

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]  
[326 IAC 2-7-5(15)]

---

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

(a) - (b) ...

(c) One (1) joist fabrication line including a GMAW welding area and a ~~vacuum-assisted flow Coater~~ **dip-and-drain paint tank**, identified as Middle Span Line, constructed in March 1972, with the **paint tank constructed in 2011**, ~~original solvent-based paint dip tanks replaced with a water-based flow coater in October 1996~~, with a maximum production capacity of ten (10) tons of steel joists per hour.

(d) - (f) ...

(g) One (1) deck fabrication line including three (3) double-side roll coaters, three (3) electric infra-red drying ovens, and two (2) airless spray edge coaters, identified as Deck Line, with two (2) roll coaters constructed in October 1977 and a third roll coater and two (2) airless spray edge coaters constructed in February 1998, with a maximum production capacity of forty (40) tons of steel deck per hour. **Under NSPS Subpart TT, the Deck Line's three (3) roll coaters, infra-red curing ovens, and water quench stations are considered an affected metal coil surface coating facility.**

~~Under NSPS Subpart TT, this source is considered an affected metal coil surface coating facility.~~

**Change No. 2** IDEM has removed the mailing address from Condition A.1 and the reporting forms.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

---

The Permittee owns and operates a stationary steel joist and deck fabrication operation.

|                              |  |
|------------------------------|--|
| Source Address:              | 6610 County Road 60, St. Joe, Indiana 46785  |
| Mailing Address:             | <del>6610 County Road 60, St. Joe, IN, 46785</del>   |
| General Source Phone Number: | (260) 337-1884   |
| SIC Code:                    | 3441, 3444   |
| County Location:             | DeKalb   |
| Source Location Status:      | Attainment for all criteria pollutants   |
| Source Status:               | Part 70 Operating Permit Program<br>Minor Source, under PSD Rules<br>Minor Source, Section 112 of the Clean Air Act<br>Not 1 of 28 Source Categories |

### Reporting Forms:

|                     |  |
|---------------------|--|
| Source Name:        | Nucor Vulcraft - St. Joe Division                  |
| Source Address:     | 6610 County Road 60, St. Joe, Indiana 46785        |
| Mailing Address:    | <del>6610 County Road 60, St. Joe, IN, 46785</del> |
| Part 70 Permit No.: | T033-25285-00027                                   |

**Change No. 3** Several of IDEM's Branches and sections have been renamed. Therefore, IDEM has updated the addresses and contact information listed in the permit. References to "Permit Administration and Development Section" and the "Permits Branch" have been changed to "Permit Administration and Support Section". References to "Asbestos Section", "Compliance Data Section", "Air Compliance Section", "Compliance Section", and "Compliance Branch" have been changed to "Compliance and Enforcement Branch".

**Change No. 4** Condition B.2, Permit Term, is clarified as follows to reference the operating permit:

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]

- (a) These **Part 70 Operating Permit Renewal** permit, T033-25285-00027, is issued for a fixed term of five (5) years from the issuance date of this permit, 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 of this permit.
- (b) ...

**Change No. 5** There may be times when it is unnecessary for a responsible official to "certify" additional information requested by IDEM; therefore, paragraph (a) of Condition B.7, Duty to Provide Information, is revised as follows:

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

- (a) 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 "responsible official" as defined by 326 IAC 2-7-1(34).~~ Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.
- (b) ...

**Change No. 6** Condition B.8, Certification, is revised as follows:

B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

- (a) ~~Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain~~ **A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:**
  - (i) ~~it contains a certification by the a "responsible official" of truth, accuracy as defined by 326 IAC 2-7-1(34), and completeness. This~~
  - (ii) ~~the certification shall state~~ **the 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 Permittee may use** the attached Certification Form, **or its equivalent**, with each submittal requiring certification.- One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

**Change No. 7** Condition B.10, Preventive Maintenance Plan, requirements have been clarified as follows:

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]  
~~[326 IAC 1-6-3]~~

---

**(a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:**

- (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.**

**The Permittee shall implement the PMPs.**

**(ab)** If required by specific condition(s) in Section D of this permit, **where no PMP was previously required**, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) ~~within~~ **no later than** ninety (90) days after issuance of this permit **or ninety (90) days after initial start-up, whichever is later**, 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.**

**If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:**

**Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251**

**The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).**

**The Permittee shall implement the PMPs.**

- (bc) 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 is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs **PMPs and their submittal** do not require ~~the a~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the a~~ "responsible official" as defined by 326 IAC 2-7-1(34).
- (ed) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

**Change No. 8** Condition B.11, Emergency Provisions, is updated as follows:

**B.11** Emergency Provisions [326 IAC 2-7-16]

---

- (a) ...
- (b) ...
- (1) - (3) ...
- (4) ...
- Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or  
Telephone Number: 317-233-0178 (ask for **Office of Air Quality**, Compliance and Enforcement Branch)  
Facsimile Number: 317-233-6865
- (5) ...
- The notification which shall be submitted by the Permittee does not require ~~the a~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the a~~ "responsible official" as defined by 326 IAC 2-7-1(34).
- (6) ...
- (c) - (g) ...
- ~~(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.~~

**Change No. 9** IDEM has removed Condition B.15, Deviations from Permit Requirements and Conditions as shown below. These requirements have been moved to the General Reporting Requirements in Section C of the permit.

~~**B.15** Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003~~

~~Indianapolis, Indiana 46204-2251~~

~~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 "responsible official" as defined by 326 IAC 2-7-1(34).~~

- ~~(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.~~

**Change No. 10** Condition B.17 (now B.16), Permit Renewal, is clarified as follows:

**B.4716** Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

---

- (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 2-7-4. 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 a~~ **certification that meets the requirements of 326 IAC 2-7-6(1)** by ~~the a~~ "responsible official" as defined by 326 IAC 2-7-1(34).
- ...
- (b) ...
- (c) 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 2-7 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, **pursuant to 326 IAC 2-7-4(a)(2)(D)**, in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

**Change No. 11** Condition B.18 (now B.17), Permit Amendment or Modification, is clarified as follows:

**B.4817** Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

---

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

Any such application ~~shall be certified~~ **does require a certification that meets the requirements of 326 IAC 2-7-6(1)** by ~~the a~~ "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

**Change No. 12** Condition B.19 (now B.18), Permit Revision Under Economic Incentives and Other Programs, is clarified as follows:

**B.4918** Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]  
[326 IAC 2-7-12(b)(2)]

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- (a) No Part 70 permit revision **or notice** shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) ...

**Change No. 13** Condition B.23 (now B.22), Transfer of Ownership or Operational Control, is clarified as follows:

**B.2322** Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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- (a) ...
- (b) ...
- The **Any such** application which shall be submitted by the Permittee does require the certification **that meets the requirements of 326 IAC 2-7-6(1)** by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) ...

**Change No. 14** Condition C.2, Opacity, is clarified as follows:

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

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Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in **326 IAC 5-1-1 (Applicability)** and 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.

**Change No. 15** Condition C.4, Incineration, is clarified as follows:

**C.4** Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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The Permittee shall not operate an incinerator ~~or incinerate any waste or refuse~~ except as provided in 326 IAC 4-2 ~~and~~ **in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.**

**Change No. 16** Condition C.8, Performance Testing, is clarified as follows:

C.8 Performance Testing [326 IAC 3-6]

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~~(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:~~

**(a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:**

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification **that meets the requirements of 326 IAC 2-7-6(1)** by the "responsible official" as defined by 326 IAC 2-7-1(34).

(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 a certification **that meets the requirements of 326 IAC 2-7-6(1)** by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) ...

**Change No. 17** Condition C.10, Compliance Monitoring, is clarified as follows:

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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Unless otherwise specified in this permit, ~~for all monitoring and record keeping requirements not already legally required, the Permittee shall be implemented within~~ **allowed up to ninety (90) days from the date** of permit issuance or ~~ninety (90) days of initial start-up, whichever is later. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required, to begin such~~ **monitoring related to that equipment. If due to circumstances beyond the Permittee's control, that equipment any monitoring equipment required by this permit cannot be installed and operated within** **no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later**, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require ~~the a~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** by thea "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

**Change No. 18** The general requirements for Monitoring Methods (Condition C.10) were removed from the permit as follows (This provision will be included as needed in Section D of the permit.)

~~C.10 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]~~

~~Any monitoring or testing 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.~~

**Change No. 19** Condition C.12 (now C.11), Emergency Reduction Plans, is clarified as follows:

~~C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]~~

~~Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):~~

~~(a) If the Permittee has not already done so, the Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.~~

~~(b) These ERPs shall be submitted for approval to:~~

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

~~and~~

~~any applicable Local Air Pollution Control Agency within ninety (90) days form the date of issuance of this permit.~~

~~The ERP does require the certification by the Authorized Individual as defined by 326 IAC 2-1.1-1(1).~~

~~(c) If the ERP is disapproved by IDEM, OAQ, or any applicable Local Air Pollution Control Agency, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.~~

~~(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.~~

~~(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.~~

~~(f) Upon direct notification by IDEM, OAQ, or any applicable Local Air Pollution Control Agency, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]~~

**C.11 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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**Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):**

- (a) **The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.**
- (b) **Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]**

**Change No. 20** Condition C.14 (now C.13), Response to Excursions or Exceedances, is clarified as follows:

**C.4413 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]**

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- ~~(a) Upon detecting an excursion **where a response step is required by the D Section or an exceedance, the** of a limitation in this permit:~~
- (a) **The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.**
- (b) ~~The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions. The response may include, but are~~is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned **or are returning** to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to ~~within the indicator range, designated condition, or below the applicable emission limitation~~**normal or standard, as applicable usual manner of operation.**
- (c) - (d) ...
- (e) ~~The Permittee shall maintain~~**record the following records: reasonable response steps taken.**
  - ~~(1) monitoring data;~~
  - ~~(2) monitor performance data, if applicable; and~~
  - ~~(3) corrective actions taken.~~

**Change No. 21** Condition C.15 (now C.14), Actions Related to Noncompliance Demonstrated by a Stack Test, is clarified as follows:

~~C.14~~**14** Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

- (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 its response actions to IDEM, OAQ, within thirty (30)~~ **no later than seventy-five (75) days of receipt after the date 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~~ **no later than** one hundred ~~twenty (120)~~ **eighty (180) days of receipt of after the original date of the test results.** Should the Permittee demonstrate to IDEM, OAQ, that retesting in one hundred ~~twenty (120)~~ **eighty (180) 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 response action documents submitted pursuant to this condition do require ~~the a~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the a~~ "responsible official" as defined by 326 IAC 2-7-1(34).

**Change No. 22** Condition C.16 (now C.15), Emission Statement, is clarified as follows:

~~C.14~~**15** Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

- ~~(a)~~ In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2004 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
- (1a) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2b) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-50 IGCN 1003  
Indianapolis, Indiana 46204-2251

The emission statement does require ~~the a~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the a~~ "responsible official" as defined by 326 IAC 2-7-1(34).

- ~~(b)~~ The emission statement 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.

**Change No. 23** Condition C.17 (now C.16), General Record Keeping Requirements, is clarified as follows:

C.4716 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

- (a) ...
- (b) Unless otherwise specified in this permit, **for** all record keeping requirements not already legally required, **the Permittee** shall be ~~implemented within~~ **allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.**

**Change No. 24** Condition C.18 (now C.17), General Reporting Requirements, is clarified as follows:

C.4817 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (a) ~~The Permittee 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-~~ **except that 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.** This report shall be submitted ~~with~~ **not later than thirty (30) days after** the end of the reporting period.- The Quarterly Deviation and Compliance Monitoring Report shall include ~~the~~ **a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.**
- (b) ~~The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:~~ **The address for report submittal is:**  
  
Indiana Department of Environmental Management  
Compliance **and Enforcement** Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53, IGCN 1003  
Indianapolis, Indiana 46204-2251
- (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, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~
- (e) ~~—~~ **The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period.** Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

**Change No. 25** Condition C.19 (now C.18), Compliance with 40 CFR 82 and 326 IAC 22-1, is clarified as follows:

~~C.19~~**18** Compliance with 40 CFR 82 and 326 IAC 22-1

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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~~**applicable** 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 82.164.~~

**Change No. 26** IDEM has updated the Preventative Maintenance Plan requirements in Condition D.1.4 as follows:

D.1.4 Preventative Maintenance Plan [326 IAC 2-7-5(13)]

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~~A Preventive Maintenance Plan (PMP), in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities.~~ **A Preventive Maintenance Plan (PMP) is required for these facilities. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.**

**Change No. 27** IDEM has updated the Record Keeping Requirements in Condition D.1.6 as follows:

D.1.6 Record Keeping Requirements

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- ~~(a) ...~~
- ~~(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.~~ **Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.**

**Change No. 28** IDEM has updated the Reporting Requirements in Condition D.1.7 as follows:

D.1.7 Reporting Requirements

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A quarterly summary of the information to document compliance with Condition D.1.1 shall be submitted ~~to the addresses 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~~ **not later than** thirty (30) days ~~after~~ **following** the end of ~~the~~ **each calendar** quarter ~~being reported.~~ The report submitted by the Permittee does require ~~the~~ **a certification that meets the requirements of 326 IAC 2-7-6(1) by the a "responsible official" as defined by 326 IAC 2-7-1(34).** **Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.**

**Change No. 29** IDEM has revised the way that NSPS and NESHAP requirements are incorporated into the permit. New Sections E.1 will list the applicable portions of the NSPS TT and the unnecessary conditions (D.1.8 and D.1.9) will be removed. The full text of the NSPS TT requirements is included as an attachment to the permit. The revisions are as follows:

### SECTION E.1 Standards of Performance for Metal Coil Coating NSPS

#### Emissions Unit Description:

- (g) One (1) deck fabrication line including three (3) double-side roll coaters, three (3) electric infra-red drying ovens, and two (2) airless spray edge coaters, identified as Deck Line, with two (2) roll coaters constructed in October 1977 and a third roll coater and two (2) airless spray edge coaters constructed in February 1998, with a maximum production capacity of forty (40) tons of steel deck per hour. **Under NSPS Subpart TT, the Deck Line's three (3) roll coaters, infra-red curing ovens, and water quench stations are considered an affected metal coil surface coating facility.**

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

#### New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

##### ~~D.1.8 E.1.1~~ General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A] [326 IAC 12]

~~The provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the Deck Line's three (3) roll coaters, infra-red curing ovens, and water quench stations except when otherwise specified in 40 CFR 60 Subpart TT.~~

**The provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the Deck Line's three (3) roll coaters, infra-red curing ovens, and water quench stations except when otherwise specified in 40 CFR 60 Subpart TT.**

##### ~~D.1.9 E.1.2~~ Standards of Performance for Metal Coil Coating NSPS [40 CFR Part 60, Subpart TT]

~~The Permittee which engages in metal coil surface coating shall comply with the provisions of 40 CFR Part 60, Subpart TT which is incorporated by reference as follows:~~

**The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart TT, which is incorporated by reference and included as Attachment A to this permit, for the Deck Line's three (3) roll coaters, infra-red curing ovens, and water quench stations:**

- (a) 40 CFR 60.460
- (b) 40 CFR 60.461
- (c) 40 CFR 60.462(a)(1)
- (d) 40 CFR 60.463(a), (b), and (c)(1)
- (e) 40 CFR 60.464(a)
- (f) 40 CFR 60.465(a), (c), and (e)
- (g) 40 CFR 60.466(a)(1) and (b)

#### ~~§ 60.460 - Applicability and designation of affected facility.~~

~~(a) The provisions of this subpart apply to the following affected facilities in a metal coil surface coating operation: each prime coat operation, each finish coat operation, and each prime and finish coat operation combined when the finish coat is applied wet on wet over the prime coat and both coatings are cured simultaneously.~~

~~(b) This subpart applies to any facility identified in paragraph (a) of this section that commences construction, modification, or reconstruction after January 5, 1981.~~

**§ 60.461 Definitions.**

(a) All terms used in this subpart not defined below are given the same meaning as in the Act or in subpart A of this part.

~~Coating means any organic material that is applied to the surface of metal coil.~~

~~Coating application station means that portion of the metal coil surface coating operation where the coating is applied to the surface of the metal coil. Included as part of the coating application station is the flashoff area between the coating application station and the curing oven.~~

~~Curing oven means the device that uses heat or radiation to dry or cure the coating applied to the metal coil.~~

~~Finish coat operation means the coating application station, curing oven, and quench station used to apply and dry or cure the final coating(s) on the surface of the metal coil. Where only a single coating is applied to the metal coil, that coating is considered a finish coat.~~

~~Metal coil surface coating operation means the application system used to apply an organic coating to the surface of any continuous metal strip with thickness of 0.15 millimeter (mm) (0.006 in.) or more that is packaged in a roll or coil.~~

~~Prime coat operation means the coating application station, curing oven, and quench station used to apply and dry or cure the initial coating(s) on the surface of the metal coil.~~

~~Quench station means that portion of the metal coil surface coating operation where the coated metal coil is cooled, usually by a water spray, after baking or curing.~~

~~VOC content means the quantity, in kilograms per liter of coating solids, of volatile organic compounds (VOC's) in a coating.~~

(b) All symbols used in this subpart not defined below are given the same meaning as in the Act and in subpart A of this part.

~~$C_a$  = the VOC concentration in each gas stream leaving the control device and entering the atmosphere (parts per million by volume, as carbon).~~

~~$C_b$  = the VOC concentration in each gas stream entering the control device (parts per million by volume, as carbon).~~

~~$C_f$  = the VOC concentration in each gas stream emitted directly to the atmosphere (parts per million by volume, as carbon).~~

~~$D_e$  = density of each coating, as received (kilograms per liter).~~

~~$D_d$  = density of each VOC solvent added to coatings (kilograms per liter).~~

~~$D_r$  = density of VOC solvent recovered by an emission control device (kilograms per liter).~~

~~$E$  = VOC destruction efficiency of the control device (fraction).~~

~~$F$  = the proportion of total VOC's emitted by an affected facility that enters the control device (fraction).~~

~~$G$  = volume-weighted average mass of VOC's in coatings consumed in a calendar month per unit volume of coating solids applied (kilograms per liter).~~

~~$L_e$  = the volume of each coating consumed, as received (liters).~~

~~$L_d$  = the volume of each VOC solvent added to coatings (liters).~~

~~$L_r$  = the volume of VOC solvent recovered by an emission control device (liters).~~

~~$L_s$  = the volume of coating solids consumed (liters).~~

~~$M_d$  = the mass of VOC solvent added to coatings (kilograms).~~

~~$M_o$  = the mass of VOC's in coatings consumed, as received (kilograms).~~

~~$M_r$  = the mass of VOC's recovered by an emission control device (kilograms).~~

~~$N$  = the volume-weighted average mass of VOC emissions to the atmosphere per unit volume of coating solids applied (kilograms per liter).~~

~~$Q_a$  = the volumetric flow rate of each gas stream leaving the control device and entering the atmosphere (dry standard cubic meters per hour).~~

~~$Q_b$  = the volumetric flow rate of each gas stream entering the control device (dry standard cubic meters per hour).~~

~~$Q_i$  = the volumetric flow rate of each gas stream emitted directly to the atmosphere (dry standard cubic meters per hour).~~

~~$R$  = the overall VOC emission reduction achieved for an affected facility (fraction).~~

~~$S$  = the calculated monthly allowable emission limit (kilograms of VOC per liter of coating solids applied).~~

~~$V_s$  = the proportion of solids in each coating, as received (fraction by volume).~~

~~$W_o$  = the proportion of VOC's in each coating, as received (fraction by weight).~~

#### **§ 60.462—Standards for volatile organic compounds.**

~~(a) On and after the date on which §60.8 requires a performance test to be completed, each owner or operator subject to this subpart shall not cause to be discharged into the atmosphere more than:~~

~~(1) 0.28 kilogram VOC per liter (kg VOC/l) of coating solids applied for each calendar month for each affected facility that does not use an emission control device(s); or~~

~~(2) 0.14 kg VOC/l of coating solids applied for each calendar month for each affected facility that continuously uses an emission control device(s) operated at the most recently demonstrated overall efficiency; or~~

~~(3) 10 percent of the VOC's applied for each calendar month (90 percent emission reduction) for each affected facility that continuously uses an emission control device(s) operated at the most recently demonstrated overall efficiency; or~~

~~(4) A value between 0.14 (or a 90 percent emission reduction) and 0.28 kg VOC/l of coating solids applied for each calendar month for each affected facility that intermittently uses an emission control device operated at the most recently demonstrated overall efficiency.~~

#### **§ 60.463—Performance test and compliance provisions.**

~~(a) Section 60.8(d) and (f) do not apply to the performance test.~~

~~(b) The owner or operator of an affected facility shall conduct an initial performance test as required under §60.8(a) and thereafter a performance test for each calendar month for each affected facility according to the procedures in this section.~~

~~(c) The owner or operator shall use the following procedures for determining monthly volume-weighted average emissions of VOC's in kg/l of coating solids applied.~~

(1) An owner or operator shall use the following procedures for each affected facility that does not use a capture system and control device to comply with the emission limit specified under §60.462(a)(1). The owner or operator shall determine the composition of the coatings by formulation data supplied by the manufacturer of the coating or by an analysis of each coating, as received, using Method 24. The Administrator may require the owner or operator who uses formulation data supplied by the manufacturer of the coatings to determine the VOC content of coatings using Method 24 or an equivalent or alternative method. The owner or operator shall determine the volume of coating and the mass of VOC solvent added to coatings from company records on a monthly basis. If a common coating distribution system serves more than one affected facility or serves both affected and existing facilities, the owner or operator shall estimate the volume of coating used at each affected facility by using the average dry weight of coating and the surface area coated by each affected and existing facility or by other procedures acceptable to the Administrator.

(i) Calculate the volume-weighted average of the total mass of VOC's consumed per unit volume of coating solids applied during each calendar month for each affected facility, except as provided under paragraph (c)(1)(iv) of this section. The weighted average of the total mass of VOC's used per unit volume of coating solids applied each calendar month is determined by the following procedures.

(A) Calculate the mass of VOC's used ( $M_o + M_d$ ) during each calendar month for each affected facility by the following equation:

$$M_o + M_d = \sum_{i=1}^n L_{ci} D_{ci} W_{oi} + \sum_{j=1}^m L_{dj} D_{dj} \quad \text{Equation 1}$$

( $\sum L_{dj} D_{dj}$  will be 0 if no VOC solvent is added to the coatings, as received)

where

n is the number of different coatings used during the calendar month, and

m is the number of different VOC solvents added to coatings used during the calendar month.

(B) Calculate the total volume of coating solids used ( $L_s$ ) in each calendar month for each affected facility by the following equation:

$$L_s = \sum_{i=1}^n V_x L_{xi} \quad \text{Equation 2}$$

Where:

n is the number of different coatings used during the calendar month.

(C) Calculate the volume-weighted average mass of VOC's used per unit volume of coating solids applied (G) during the calendar month for each affected facility by the following equation:

$$G = \frac{M_o + M_d}{L_s} \quad \text{Equation 3}$$

(ii) Calculate the volume-weighted average of VOC emissions to the atmosphere (N) during the calendar month for each affected facility by the following equation:

$$N = G \quad \text{Equation 4}$$

(iii) Where the volume-weighted average mass of VOC's discharged to the atmosphere per unit volume of coating solids applied (N) is equal to or less than 0.28 kg/l, the affected facility is in compliance.

(iv) If each individual coating used by an affected facility has a VOC content, as received, that is equal to or less than 0.28 kg/l of coating solids, the affected facility is in compliance provided no VOC's are added to the coatings during distribution or application.

(2) An owner or operator shall use the following procedures for each affected facility that continuously uses a capture system and a control device that destroys VOC's (e.g., incinerator) to comply with the emission limit specified under §60.462(a) (2) or (3).

~~(i) Determine the overall reduction efficiency (R) for the capture system and control device.~~

~~For the initial performance test, the overall reduction efficiency (R) shall be determined as prescribed in paragraphs (c)(2)(i) (A), (B), and (C) of this section. In subsequent months, the owner or operator may use the most recently determined overall reduction efficiency (R) for the performance test, providing control device and capture system operating conditions have not changed. The procedure in paragraphs (c)(2)(i) (A), (B), and (C) of this section, shall be repeated when directed by the Administrator or when the owner or operator elects to operate the control device or capture system at conditions different from the initial performance test.~~

~~(A) Determine the fraction (F) of total VOC's emitted by an affected facility that enters the control device using the following equation:~~

$$F = \frac{\sum_{i=1}^l C_{in} Q_{in}}{\sum_{i=1}^l C_{in} Q_{in} + \sum_{i=1}^p C_{in} Q_{in}}$$

~~Equation 5~~

~~Where:~~

~~l is the number of gas streams entering the control device, and~~

~~p is the number of gas streams emitted directly to the atmosphere.~~

~~(B) Determine the destruction efficiency of the control device (E) using values of the volumetric flow rate of each of the gas streams and the VOC content (as carbon) of each of the gas streams in and out of the device by the following equation:~~

$$E = \frac{\sum_{i=1}^n Q_{in} C_{in} - \sum_{i=1}^m Q_{out} C_{out}}{\sum_{i=1}^n Q_{in} C_{in}}$$

~~Equation 6~~

~~Where:~~

~~n is the number of gas streams entering the control device, and~~

~~m is the number of gas streams leaving the control device and entering the atmosphere.~~

~~The owner or operator of the affected facility shall construct the VOC emission reduction system so that all volumetric flow rates and total VOC emissions can be accurately determined by the applicable test methods and procedures specified in §60.466. The owner or operator of the affected facility shall construct a temporary enclosure around the coating applicator and flashoff area during the performance test for the purpose of evaluating the capture efficiency of the system. The enclosure must be maintained at a negative pressure to ensure that all VOC emissions are measurable. If a permanent enclosure exists in the affected facility prior to the performance test and the Administrator is satisfied that the enclosure is adequately containing VOC emissions, no additional enclosure is required for the performance test.~~

~~(C) Determine overall reduction efficiency (R) using the following equation:~~

~~$R = EF$  Equation 7~~

~~If the overall reduction efficiency (R) is equal to or greater than 0.90, the affected facility is in compliance and no further computations are necessary. If the overall reduction efficiency (R) is less than 0.90, the average total VOC emissions to the atmosphere per unit volume of coating solids applied (N) shall be computed as follows.~~

~~(ii) Calculate the volume-weighted average of the total mass of VOC's per unit volume of coating solids applied (G) during each calendar month for each affected facility using equations in paragraphs (c)(1)(i) (A), (B), and (C) of this section.~~

~~(iii) Calculate the volume-weighted average of VOC emissions to the atmosphere (N) during each calendar month by the following equation:~~

$$N = G(1 - R) \quad \text{Equation 8}$$

~~(iv) If the volume-weighted average mass of VOC's emitted to the atmosphere for each calendar month (N) is less than or equal to 0.14 kg/l of coating solids applied, the affected facility is in compliance. Each monthly calculation is a performance test.~~

~~(3) An owner or operator shall use the following procedure for each affected facility that uses a control device that recovers the VOC's (e.g., carbon adsorber) to comply with the applicable emission limit specified under §60.462(a)(2) or (3).~~

~~(i) Calculate the total mass of VOC's consumed ( $M_o + M_d$ ) during each calendar month for each affected facility using equation (1).~~

~~(ii) Calculate the total mass of VOC's recovered ( $M_r$ ) during each calendar month using the following equation:~~

$$M_r = L_r D_r \quad \text{Equation 9}$$

~~(iii) Calculate the overall reduction efficiency of the control device (R) for each calendar month for each affected facility using the following equation:~~

$$R = \frac{M_r}{M_o + M_d} \quad \text{Equation 10}$$

~~If the overall reduction efficiency (R) is equal to or greater than 0.90, the affected facility is in compliance and no further computations are necessary. If the overall reduction efficiency (R) is less than 0.90, the average total VOC emissions to the atmosphere per unit volume of coating solids applied (N) must be computed as follows.~~

~~(iv) Calculate the total volume of coating solids consumed ( $L_s$ ) and the volume-weighted average of the total mass of VOC's per unit volume of coating solids applied (G) during each calendar month for each affected facility using equations in paragraphs (c)(1)(i) (B) and (C) of this section.~~

~~(v) Calculate the volume-weighted average mass of VOC's emitted to the atmosphere (N) for each calendar month for each affected facility using equation (8).~~

~~(vi) If the weighted average mass of VOC's emitted to the atmosphere for each calendar month (N) is less than or equal to 0.14 kg/l of coating solids applied, the affected facility is in compliance. Each monthly calculation is a performance test.~~

~~(4) An owner or operator shall use the following procedures for each affected facility that intermittently uses a capture system and a control device to comply with the emission limit specified in §60.462(a)(4).~~

~~(i) Calculate the total volume of coating solids applied without the control device in operation ( $L_{sn}$ ) during each calendar month for each affected facility using the following equation:~~

$$L_{sn} = \sum_{i=1}^n V_{si} L_{ci} \quad \text{Equation 11}$$

~~Where:~~

~~n is the number of coatings used during the calendar month without the control device in operation.~~

~~(ii) Calculate the total volume of coating solids applied with the control device in operation ( $L_{sc}$ ) during each calendar month for each affected facility using the following equation:~~

$$L_{sc} = \sum_{i=1}^n V_{si} L_{ci} \quad \text{Equation 12}$$

~~Where:~~

~~n is the number of coatings used during the calendar month with the control device in operation.~~

~~(iii) Calculate the mass of VOC's used without the control device in operation ( $M_{on} + M_{dn}$ ) during each calendar month for each affected facility using the following equation:~~

~~$$M_{on} + M_{dn} = \sum_{i=1}^n L_{ci} D_{ci} W_{ci} + \sum_{j=1}^m L_{dj} D_{dj} \quad \text{Equation 13}$$~~

~~Where:~~

~~n is the number of different coatings used without the control device in operation during the calendar month, and~~

~~m is the number of different VOC-solvents added to coatings used without the control device in operation during the calendar month.~~

~~(iv) Calculate the volume-weighted average of the total mass of VOC's consumed per unit volume of coating solids applied without the control device in operation ( $G_n$ ) during each calendar month for each affected facility using the following equation:~~

~~$$G_n = \frac{M_{on} + M_{dn}}{L_{sn}} \quad \text{Equation 14}$$~~

~~(v) Calculate the mass of VOC's used with the control device in operation ( $M_{oc} + M_{dc}$ ) during each calendar month for each affected facility using the following equation:~~

~~$$M_{oc} + M_{dc} = \sum_{i=1}^n L_{ci} D_{ci} W_{ci} + \sum_{j=1}^m L_{dj} D_{dj} \quad \text{Equation 15}$$~~

~~Where:~~

~~n is the number of different coatings used with the control device in operation during the calendar month, and~~

~~m is the number of different VOC-solvents added to coatings used with the control device in operation during the calendar month.~~

~~(vi) Calculate the volume-weighted average of the total mass of VOC's used per unit volume of coating solids applied with the control device in operation ( $G_c$ ) during each calendar month for each affected facility using the following equation:~~

~~$$G_c = \frac{M_{oc} + M_{dc}}{L_{sc}} \quad \text{Equation 16}$$~~

~~(vii) Determine the overall reduction efficiency (R) for the capture system and control device using the procedures in paragraphs (c)(2)(i) (A), (B), and (C) or paragraphs (c)(3) (i), (ii), and (iii) of this section, whichever is applicable.~~

~~(viii) Calculate the volume-weighted average of VOC emissions to the atmosphere (N) during each calendar month for each affected facility using the following equation:~~

~~$$N = \frac{G_n L_{sn} + G_c L_{sc} (1 - R)}{L_{sn} + L_{sc}} \quad \text{Equation 17}$$~~

~~Equation 17~~

~~(ix) Calculate the emission limit(s) for each calendar month for each affected facility using the following equation:~~

~~$$S = \frac{0.28 L_{sn} + 0.1 G_c L_{sc}}{L_{sn} + L_{sc}}$$~~

~~or~~

$$\frac{0.28 L_{sn} + 0.14 L_{sc}}{L_{sn} + L_{sc}} \quad \text{Equation 18}$$

whichever is greater.

(x) If the volume-weighted average mass of VOC's emitted to the atmosphere for each calendar month (N) is less than or equal to the calculated emission limit (S) for the calendar month, the affected facility is in compliance. Each monthly calculation is a performance test.

[47 FR 49612, Nov. 1, 1982; 48 FR 1056, Jan. 10, 1983, as amended at 65 FR 61761, Oct. 17, 2000]

#### **§ 60.464—Monitoring of emissions and operations.**

(a) Where compliance with the numerical limit specified in §60.462(a) (1) or (2) is achieved through the use of low VOC-content coatings without the use of emission control devices or through the use of higher VOC-content coatings in conjunction with emission control devices, the owner or operator shall compute and record the average VOC content of coatings applied during each calendar month for each affected facility, according to the equations provided in §60.463.

[47 FR 49612, Nov. 1, 1982; 48 FR 1056, Jan. 10, 1983, as amended at 65 FR 61761, Oct. 17, 2000]

#### **§ 60.465—Reporting and recordkeeping requirements.**

(a) Where compliance with the numerical limit specified in §60.462(a) (1), (2), or (4) is achieved through the use of low VOC-content coatings without emission control devices or through the use of higher VOC-content coatings in conjunction with emission control devices, each owner or operator subject to the provisions of this subpart shall include in the initial compliance report required by §60.8 the weighted average of the VOC content of coatings used during a period of one calendar month for each affected facility. Where compliance with §60.462(a)(4) is achieved through the intermittent use of a control device, reports shall include separate values of the weighted average VOC content of coatings used with and without the control device in operation.

(c) Following the initial performance test, the owner or operator of an affected facility shall identify, record, and submit a written report to the Administrator every calendar quarter of each instance in which the volume-weighted average of the local mass of VOC's emitted to the atmosphere per volume of applied coating solids (N) is greater than the limit specified under §60.462. If no such instances have occurred during a particular quarter, a report stating this shall be submitted to the Administrator semiannually.

(e) Each owner or operator subject to the provisions of this subpart shall maintain at the source, for a period of at least 2 years, records of all data and calculations used to determine monthly VOC emissions from each affected facility and to determine the monthly emission limit, where applicable. Where compliance is achieved through the use of thermal incineration, each owner or operator shall maintain, at the source, daily records of the incinerator combustion temperature. If catalytic incineration is used, the owner or operator shall maintain at the source daily records of the gas temperature, both upstream and downstream of the incinerator catalyst bed.

[47 FR 49612, Nov. 1, 1982, as amended at 55 FR 51383, Dec. 13, 1990; 56 FR 20497, May 3, 1991; 65 FR 61761, Oct. 17, 2000]

#### **§ 60.466—Test methods and procedures.**

(a) The reference methods in appendix A to this part, except as provided under §60.8(b), shall be used to determine compliance with §60.462 as follows:

(1) Method 24, or data provided by the formulator of the coating, shall be used for determining the VOC content of each coating as applied to the surface of the metal coil. In the event of a dispute, Method 24 shall be the reference method. When VOC content of waterborne coatings, determined by Method 24, is used to determine compliance of affected facilities, the results of the Method 24 analysis shall be adjusted as described in Section 12.6 of Method 24;

(b) For Method 24, the coating sample must be at least a 1-liter sample taken at a point where the sample will be representative of the coating as applied to the surface of the metal coil.

**Change No. 30** The Emergency Occurrence Report has been updated as follows:

### EMERGENCY OCCURRENCE REPORT

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), ~~within~~ **no later than four (4) daytime** business hours (1-800-451-6027 or 317-233-0178, ask for Compliance **Section and Enforcement Branch**); and
  - The Permittee must submit notice in writing or by facsimile ~~within~~ **no later than two (2) working** days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

A certification is not required for this report.

**Change No. 31** The Quarterly Deviation and Compliance Monitoring Report has been updated as follows:

### QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements **of this permit**, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does 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".

Attach a signed certification to complete this report.

### Conclusion and Recommendation

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 033-29898-00027 and Minor Permit Modification No. 033-29931-00027. The staff recommend to the Commissioner that this Part 70 Minor Source Modification and Minor Permit Modification be approved.

### IDEM Contact

Questions regarding this proposed permit can be directed to:

Kimberly Cottrell  
Indiana Department Environmental Management  
Office of Air Quality  
100 North Senate Avenue  
MC 61-53, Room 1003  
Indianapolis, Indiana 46204-2251  
Toll free (within Indiana): 1-800-451-6027 extension 3-0870  
Or dial directly: (317) 233-0870  
kcottrel@idem.in.gov

Please refer to Minor Source Modification No. 033-29898-00027 and Minor Permit Modification No. 033-29931-00027 in all correspondence.

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

Appendix A – Emission Calculations  
Technical Support Document (TSD)  
Minor Source Modification (SSM) of a Part 70 Source  
Minor Permit Modification (SPM) of Part 70 Operating Permit

**Source Description and Location**

Company Name: Nucor Vulcraft - St. Joe Division  
Address City IN Zip: 6610 County Road 60, St. Joe, Indiana 46785  
County: DeKalb  
SIC / NAICS Code: 3441, 3444  
Part 70 Operating Permit Renewal No.: T033-25285-00027  
Issuance Date of Operating Permit Renewal: September 10, 2008  
Minor Source Modification No.: T033-29898-00029  
Minor Permit Modification No.: T033-29931-00030  
Permit Reviewer: Kimberly Cottrell  
Date: December 20, 2010

**Uncontrolled Potential to Emit of New Coating Process**

The table below summarizes the potential to emit calculations submitted by Nucor Vulcraft. IDEM has reviewed these calculations and verified their accuracy.

| Material              | Density (lb/gal) | Weight % Organics | Volume % Non-Volatiles (Solids) | Usage (gal/unit) | Maximum Throughput (units/hr) | lbs VOC/gallon of coating | lb VOC/gallon of coating (less water) | Potential VOC Emissions lbs/hr | tons/yr |
|-----------------------|------------------|-------------------|---------------------------------|------------------|-------------------------------|---------------------------|---------------------------------------|--------------------------------|---------|
| Armorchem WG-2 Hybrid | 11.10            | 1.80%             | 38.46%                          | 2.1              | 10                            | 0.20                      | 0.32                                  | 4.2                            | 18.396  |

\*Material does not contain any hazardous air pollutants (HAPs)

**Summary of Source Potential to Emit**

The table below summarizes the total limited potential to emit for **Nucor Vulcraft**.

|                | CO**  | NO <sub>x</sub> ** | PM    | PM <sub>10</sub> | SO <sub>2</sub> ** | VOC    | Welding HAP Mn | Remediation HAPs | Hexane | Total HAP |
|----------------|-------|--------------------|-------|------------------|--------------------|--------|----------------|------------------|--------|-----------|
|                | tpy   | tpy                | tpy   | tpy              | tpy                | tpy    | tpy            | tpy              | tpy    | tpy       |
| Title V Permit | 25285 | 8.97               | 10.68 | 11.67            | 0.06               | 210.00 | 7.14           | 0.95             | 0.20   | 8.29      |
| Current MSM    | 29898 | NA                 | NA    | 0                | 0                  | NA     | NA             | NA               | NA     | NA        |
| Subtotal       |       | 8.97               | 10.68 | 11.67            | 0.06               | 210.00 | 7.14           | 0.95             | 0.20   | 8.29      |

\*The replacement coating process will operate under the current permit limit for VOC.

\*\* CO, NO<sub>x</sub>, and SO<sub>2</sub> emissions were adjusted to correct an error in the limited PTE table of the TSD for T 033-25285-00027. In the TSD, these pollutants were listed as having negligible emissions; however, emissions from natural gas combustion are present and uncontrolled.

The table below summarizes the total limited potential to emit for **Nucor Fastener**.

|                | CO    | NO <sub>x</sub> | PM     | PM <sub>10</sub> | SO <sub>2</sub> | VOC   | Welding HAP Mn | Remediation HAPs | Hexane | Total HAP |
|----------------|-------|-----------------|--------|------------------|-----------------|-------|----------------|------------------|--------|-----------|
|                | tpy   | tpy             | tpy    | tpy              | tpy             | tpy   | tpy            | tpy              | tpy    | tpy       |
| Nucor Fastener | 63.91 | 84.68           | 104.79 | 108.73           | 6.84            | 35.75 | 0              | 0                | 1.44   | 1.44      |

These are the total emissions for Nucor Fastener based on MSM 033-25880-00038 and SPM 033-27585-00038. Based on these permits, emissions for PM, PM<sub>10</sub>, and SO<sub>2</sub> were underestimated in the Title V (T 033-20219-00038) while emissions of CO, NO<sub>x</sub>, VOC, and HAP Hexane were overestimated.

The table below summarizes the total limited potential to emit for the **entire source**.

|                        | CO    | NO <sub>x</sub> | PM     | PM <sub>10</sub> | SO <sub>2</sub> | VOC    | Welding HAP Mn | Remediation HAPs | Hexane | Total HAP |
|------------------------|-------|-----------------|--------|------------------|-----------------|--------|----------------|------------------|--------|-----------|
|                        | tpy   | tpy             | tpy    | tpy              | tpy             | tpy    | tpy            | tpy              | tpy    | tpy       |
| Total Source Emissions | 72.88 | 95.36           | 116.46 | 120.40           | 6.90            | 245.75 | 7.14           | 0.95             | 1.64   | 9.73      |



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

## SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Tim Jones  
NUCOR Vulcraft Group-St. Joe Division  
PO Box 1000  
St. Joe IN 46785

DATE: Feb. 22, 2011

FROM: Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

SUBJECT: Final Decision  
Minor Permit Modification  
033-29931-00027

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
Lee Batesole Controller NUCOR Vulcraft Group-St. Joe Division  
Erin Surinak ERM  
Steve Rowlan NUCOR Corp.  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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[www.idem.IN.gov](http://www.idem.IN.gov)

Feb. 22, 2011

TO: Eckhart Public Library

From: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

Subject: **Important Information for Display Regarding a Final Determination**

**Applicant Name: NUCOR Vulcraft Group-St. Joe Division**  
**Permit Number: 033-29931-00027**

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures  
Final Library.dot 11/30/07

# Mail Code 61-53

|                            |   |   |  |  |
|----------------------------|---|---|--|--|
| IDEM Staff                 | BMILLER 2/22/2011<br>NUCOR Vulcraft Grp-St Joe Div 033-29931-00027 (final)        |   | AFFIX STAMP<br>HERE IF<br>USED AS<br>CERTIFICATE<br>OF MAILING |  |
| Name and address of Sender |  | Indiana Department of Environmental Management<br>Office of Air Quality – Permits Branch<br>100 N. Senate<br>Indianapolis, IN 46204 | Type of Mail:<br><br><b>CERTIFICATE OF MAILING ONLY</b>        |  |

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|      |                |  |         |                 |                            |               |                 |          |          |          | Remarks        |
| 1    |                | Tim Jones NUCOR Vulcraft Grp-St Joe Div PO Box 1000 St Joe IN 46785 (Source CAATS) <i>Via Confirm Delivery</i>         |         |                 |                            |               |                 |          |          |          |                |
| 2    |                | Lee Batesole Controller NUCOR Vulcraft Grp-St Joe Div PO Box 1000 St Joe IN 46785 (RO CAATS)                           |         |                 |                            |               |                 |          |          |          |                |
| 3    |                | Mr. Steve Christman NISWMD 2320 W 800 S, P.O. Box 370 Ashley IN 46705 (Affected Party)                                 |         |                 |                            |               |                 |          |          |          |                |
| 4    |                | DeKalb County Commissioners 100 South Main Street Auburn IN 46706 (Local Official)                                     |         |                 |                            |               |                 |          |          |          |                |
| 5    |                | Ms. Diane Leroy 303 N. Jackson St. Auburn IN 46706 (Affected Party)  |         |                 |                            |               |                 |          |          |          |                |
| 6    |                | Mr. Barry Fordanish R#3 1480 CR 66 Auburn IN 46706 (Affected Party)  |         |                 |                            |               |                 |          |          |          |                |
| 7    |                | Mr. Dave Weilbaker 1423 Urban Ave Auburn IN 46706 (Affected Party)   |         |                 |                            |               |                 |          |          |          |                |
| 8    |                | DeKalb County Health Department 215 E. 9th, County Office Building, Suite 201 Auburn IN 46706-2336 (Health Department) |         |                 |                            |               |                 |          |          |          |                |
| 9    |                | Daniel & Sandy Trimmer 15021 Yellow River Road Columbia City IN 46725 (Affected Party)                                 |         |                 |                            |               |                 |          |          |          |                |
| 10   |                | Mr. Charles L. Berger Berger & Berger, Attorneys at Law 313 Main Street Evansville IN 47700 (Affected Party)           |         |                 |                            |               |                 |          |          |          |                |
| 11   |                | 21Alive P.O. Box 2121 Fort Wayne IN 46801 (Affected Party)   |         |                 |                            |               |                 |          |          |          |                |
| 12   |                | NBC33 3401 Butler Road Fort Wayne IN 46808 (Affected Party)  |         |                 |                            |               |                 |          |          |          |                |
| 13   |                | Brown & Sons Fuel Co. P.O. Box 665 Kendallville IN 46755 (Affected Party)  |         |                 |                            |               |                 |          |          |          |                |
| 14   |                | Niann Lautzenhiser 660 LN 210 Hamilton LK Hamilton IN 46742 (Affected Party)   |         |                 |                            |               |                 |          |          |          |                |
| 15   |                | Mr. Marty K. McCurdy 2550 County Road 27 Waterloo IN 46793 (Affected Party)  |         |                 |                            |               |                 |          |          |          |                |

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|      |                |  |         |                 |                            |               |                 |          |          |          | Remarks        |
| 1    |                | St. Joe Town Council P.O. Box 293 St. Joe IN 46785 (Local Official)  |         |                 |                            |               |                 |          |          |          |                |
| 2    |                | Eckhart Public Library 603 S. Jackson Street Auburn IN 46706 (Library)   |         |                 |                            |               |                 |          |          |          |                |
| 3    |                | Erin Surinak Environmental Resources Management (ERM) 11350 N Meridian Street Suite 320 Carmel IN 46032 (Consultant) |         |                 |                            |               |                 |          |          |          |                |
| 4    |                | Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)   |         |                 |                            |               |                 |          |          |          |                |
| 5    |                | Mr. Steve Rowlan Nucor Corporation 2100 Rexford Rd Charlotte NC 28211 (Source & addl contact)                        |         |                 |                            |               |                 |          |          |          |                |
| 6    |                |  |         |                 |                            |               |                 |          |          |          |                |
| 7    |                |  |         |                 |                            |               |                 |          |          |          |                |
| 8    |                |  |         |                 |                            |               |                 |          |          |          |                |
| 9    |                |  |         |                 |                            |               |                 |          |          |          |                |
| 10   |                |  |         |                 |                            |               |                 |          |          |          |                |
| 11   |                |  |         |                 |                            |               |                 |          |          |          |                |
| 12   |                |  |         |                 |                            |               |                 |          |          |          |                |
| 13   |                |  |         |                 |                            |               |                 |          |          |          |                |
| 14   |                |  |         |                 |                            |               |                 |          |          |          |                |
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