

**PART 70 OPERATING PERMIT
and ENHANCED NEW SOURCE REVIEW**

OFFICE OF AIR MANAGEMENT

**Vulcraft, A Division of Nucor Corporation
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 facilities listed in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and 326 IAC 2-1-3.2 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 (prior to July 1, 1996, IC 13-1-1-4 and IC 13-7-10).

Operation Permit No.: T033-6286-00027	
Issued by: Felicia R. George, Assistant Commissioner Office of Air Management	Issuance Date:

Vulcraft, A Division of Nucor Corporation
St. Joe, Indiana
Reviewer- Aida De Guzman

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SECTION A SOURCE SUMMARY

A.1 General Information

The Permittee fabricates metal joists, trusses and deckings used for the building construction industry.

Responsible Official: Mr. James Ronner
Mailing Address: Vulcraft
P. O. Box 1000
St. Joe, Indiana 46785
SIC Codes: 3441 & 3444
County Location: DeKalb
County Status: Attainment for all criteria pollutants
Source Status: Minor Source, PSD Rules;
Major Source, Part 70 Permit Program; and
Major Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Equipment Summary

The stationary source consists of the following emission units:

- (1) One (1) Super Long Span Line which includes two (2) dip-and-drain paint tanks, and a GMAW welding area. This line is capable of producing 10 tons of metal joists, or trusses per hour.
- (2) One (1) Long Span Line which includes two (2) dip-and-drain paint tanks, and a GMAW welding area. This line is capable of producing 10 tons of metal joists, or trusses per hour.
- (3) One (1) Short Span Line which includes one (1) vacuum-assisted flow coater, and a GMAW welding area. This line is capable of producing 9 tons of metal joists, or trusses per hour.
- (4) One (1) Combination Span Line which includes two (2) dip-and-drain paint tanks, and a GMAW welding area. This line is capable of producing 12 tons of metal joists, or trusses per hour.
- (5) One (1) Bridging Line which includes two (2) dip-and-drain paint tanks, one (1) vacuum coater and a GMAW welding area. This line is capable of producing 10 tons of bridging per hour.
- (6) One (1) Deck Line which include one (1) roll coater and is capable of producing 40 tons of metal decks per hour, and
- (7) One (1) Middle Span Line which includes one (1) vacuum-assisted flow coater, and a welding area. This line is capable of producing 10 tons of metal joists and trusses per hour.

A.3 Insignificant Activities [326 IAC 2-7-1(20)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(20).

- (1) Natural gas-fired combustion facilities with heat input equal to or less than ten million (10,000,000) Btu per hour.
- (2) Propane or LPG, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.
- (3) 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.
- (4) Combustion source flame safety purging on startup.
- (5) 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.
- (6) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.
- (7) Vessels storing lubricating oils, hydraulic oils, and machining fluids.
- (8) Packaging lubricants or greases.
- (9) Filling drums, pails or other packaging containers with lubricating oils, waxes, and greases.
- (10) Application of oils, greases, lubricants, or nonvolatile materials applied as temporary protective coatings.
- (11) Machining where an aqueous cutting coolant continuously floods the machining interface.
- (12) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
- (13) Cleaners and solvents characterized as follows:
 - a) having vapor pressure equal to or less than 2kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100°F) or;
 - b) having a vapor pressure equal to or less than 0.7 kPa; 5mmHg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (14) The following equipment related to manufacturing activities not resulting in the emissions of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (15) Infrared cure equipment.
- (16) Cutting 200,000 linear feet or less of one (1) inch plate for structural steel and bridge fabrication activities.
- (17) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
- (18) Any operation using aqueous solutions containing less than 1% by weight of VOCs, excluding HAPs.
- (19) Process vessel degassing and cleaning to prepare for internal repairs.
- (20) Paved and unpaved roads and parking lots with public access.
- (21) 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.
- (22) 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.

- (23) On-site fire and emergency response training approved by the department.
- (24) Natural gas turbines or reciprocating engines not exceeding 16,000 horsepower, and
- (25) Stationary fire pumps.
- (26) Other activities or categories with emissions equal to or less than the thresholds:
 - a) Two storage tanks, each capable of holding 6,000 gallons of water-based paint, associated with the Deck Line.
 - b) Two underground storage tanks, each capable of holding 12,000 gallons of diesel fuel, associated with the Truck Maintenance building.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

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 (21).

A.5 Prior Permits Conditions Supersession Under [326 IAC 2]

This permit supersedes the conditions of all construction and operating permits issued under 326 IAC 2 prior to the effective date of this Part 70 Permit.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [326 IAC 2-1-10] [IC 13]

- (a) Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7.
- (b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-1-3.2 or 326 IAC 2-7-15.

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

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11 (prior to July 1, 1996, IC 13-7-1, IC 13-1-1-2), 326 IAC 1-2, and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-7-5(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-7-7(a)]

- (a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by Indiana Department of Environmental Management (IDEM).
- (b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U. S. EPA) and citizens under the Clean Air Act. [326 IAC 2-7-5(1)(G)]

B.5 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.6 Severability [326 IAC 2-7-5(5)]

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

B.7 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit constitutes a violation of the Clean Air Act and is grounds for:
- (1) Enforcement action;

- (2) Permit termination, revocation, and reissuance or modification; or
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

B.8 Multiple Exceedances [326 IAC 2-7-5(1)(E)]

Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.

B.9 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

B.10 Permit Shield [326 IAC 2-7-15]

- (a) Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided either of the following:
- (1) The applicable requirements are included and specifically identified in this permit;
 - (2) The IDEM, Office of Air Management (OAM), in acting on the Part 70 permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the Part 70 permit includes the determination or a concise summary thereof.
- (b) 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.
- (c) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement, IDEM, OAM, 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.
- (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) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c) (trading based on SIP provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAM, 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, OAM, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.11 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)]

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015
- (b) The Permittee shall also provide additional information as requested by IDEM, OAM, to determine the compliance status of the source in accordance with 326 IAC 2-7-6.
- (c) The Permittee shall furnish to IDEM, OAM, within a reasonable time, any information that IDEM, OAM, 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.
- (d) Upon request, the Permittee shall also furnish to IDEM, OAM, copies of records required to be kept by this permit, or for information claimed to be confidential, the Permittee may furnish such records directly to the U.S. EPA and IDEM, OAM, along with a claim of confidentiality.

Such confidentiality claim shall meet the requirements of 40 CFR Part 2, Subpart B (when submitting to U.S. EPA) and 326 IAC 17 (when submitting to IDEM, OAM).

B.12 Certification [326 IAC 2-7-4(f)]

- (a) Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. These certifications 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, on the attached Certification Form, with each submittal.
- (a) A responsible official is defined at 326 IAC 2-7-1(33).

B.13 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually certify that the source has complied with terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification shall be submitted July 1 of each year to:

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

and

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

- (b) This annual compliance certification report required by this permit shall be timely if delivered by any method and received and stamped by IDEM, OAM on or before the date it is due [326 IAC 2-5-3].
- (c) The annual compliance certification report shall include the following:
- (1) The 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 compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
 - (5) Such other facts as IDEM, OAM may require to determine the compliance status of the source.

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

B.14 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-7-16.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that 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) The Permittee notified IDEM, OAM, within four (4) daytime business hours after the beginning of the emergency occurrence by telephone or facsimile;

Telephone No.: 1-800-451-6027 (ask for Office of Air Management), or
Telephone No.: 317-233-0178
Facsimile No.: 317-232-6749

- (5) The Permittee submitted notice either in writing or by facsimile of the emergency to:

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

within two (2) working days of the time when emission limitations were exceeded due to the emergency. The notice shall fulfill 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;
- (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 any emergency or upset provision contained in 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) IDEM, OAM may require that the Preventive Maintenance Plan required under 326 IAC 2-7-4-(c)(9) be revised in response to an emergency.
 - (f) Failure to notify IDEM, OAM, by telephone or facsimile within four (4) daytime business

hours after the beginning of the emergency shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions;
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value; and
 - (C) Any operation continues no longer than the minimum time required to prevent the situations identified in clause (B) above.

B.15 Deviations from Permit Requirements and or Conditions [326 IAC 2-7-5(3)(C)(ii)]

Deviations from requirements, (for emergencies see Condition B.16) the probable cause of such deviations, and any corrective actions or preventive measures taken shall be reported to:

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

within ten (10) calendar days from the date of the discovery of the deviation.

Written notification shall be submitted on the attached Deviation Occurrence Reporting Forms.

B.17 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]

- (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 permit modification, revocation and reissuance or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition of this permit. [326 IAC 2-7-5(6)(C)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 (prior to July 1, 1996, in IC 13-7-10-5) or if the commissioner determines any of the following:

- (1) That it 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, OAM, 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, OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-4]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM, 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).

Request for renewal shall be submitted to:

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

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]
- (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due. [326 IAC 2-5-3]
 - (2) If IDEM, OAM 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.

- (c) Right to Operate After Application for Renewal [326 IAC 2-7-3]
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, OAM, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAM, any additional information identified as being needed to process the application.
- (d) U.S. Environmental Protection Agency (EPA) Authority [326 IAC 2-7-8(e)]
If IDEM, OAM fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.19 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-7-11]

Pursuant to 326 IAC 2-1-6 and 326 IAC 2-7-11:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the Permittee and the new owner.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-7-11.
- (c) IDEM, OAM, shall reserve the right to issue a new permit.

B.20 Administrative Permit Amendment [326 IAC 2-7-11(a)]

- (a) An administrative permit amendment is a Part 70 permit revision that makes changes of the type specified under 326 IAC 2-7-11(a).
- (b) An administrative permit amendment may be made by IDEM, OAM, consistent with the procedures specified under 326 IAC 2-7-11(c).
- (c) The Permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.21 Minor Permit Modification [326 IAC 2-7-12(b)]

- (a) A Part 70 permit modification is any revision to this permit that cannot be accomplished under administrative permit amendments of 326 IAC 2-7-11.
- (b) Minor permit modifications of this permit shall follow the procedures specified under 326 IAC 2-7-12(b), except as provided by 326 IAC 2-7-12(c).
- (c) An application requesting the use of minor modification procedures shall meet the

requirements of 326 IAC 2-7-12(b) and shall include the information required in 326 IAC 2-7-12(b)(3)(A) through (E).

- (d) The Permittee may make the change proposed in its minor permit modification application immediately after it files such application unless the change is subject to the construction permit requirements of 326 IAC 2-1, 326 IAC 2-2, or 326 IAC 2-3. After the Permittee makes the change allowed under minor permit modification procedures, and until IDEM, OAM takes any of the actions specified in 326 IAC 2-7-12(b)(6)(A) through (6)(C), the Permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this period, the Permittee need not comply with the existing permit terms and conditions it seeks to modify. If the Permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it. [326 IAC 2-7-12(b)(7)]

B.22 Significant Permit Modification [326 IAC 2-7-12(d)]

- (a) Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments.
- (b) Every significant change in existing monitoring permit terms or conditions and every relaxation of reporting or record keeping permit terms or conditions of this permit shall be considered significant.
- (c) Nothing in 326 IAC 2-7-12(d) shall be construed to preclude the Permittee from making changes consistent with 326 IAC 2-7 that would render existing permit compliance terms and conditions irrelevant.
- (d) Significant modifications of this permit shall meet all requirements of 326 IAC 2-7, including those for application, public participation, and review by the U.S. EPA and availability of the permit shield, as they apply to permit issuance and renewal.

B.23 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]

No revision of this permit shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

B.24 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of IDEM identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, 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) Have access to and copy any records that must be kept under the conditions of this permit;

- (c) 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, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
[326 IAC 2-7-6(6)]

B.25 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAM, consistent with the fee schedule established in 326 IAC 2-7-19.
- (b) Failure to pay may result in administrative enforcement action, revocation of this permit, referral to the Office of Attorney General for collection, or other appropriate measures.
- (c) If the Permittee does not receive a bill from IDEM, OAM, thirty (30) calendar days before the due date, the Permittee shall call the following telephone nos.: 1-800-451-6027 or 317-233-0179 (ask for OAM, Data Support Section), to determine the appropriate permit fee. The applicable fee is due April 1 of each year.

B.26 Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) Has certified that all facilities at this source are in compliance with all applicable requirements;
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and
- (c) Shall continue to comply with such requirements that become effective during the term of this permit.

B.27 Operational Flexibility [326 IAC 2-7-20]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) through (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) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (3) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management

100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency (EPA), 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

- (4) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, to public review.

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

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1 (C)(33).

- (b) For each such change, the required written notification shall include the following:
 - (1) The date on which the change will occur;
 - (2) A brief description of the change within the source;
 - (3) Any change in emissions;
 - (4) The permit requirements with which the source will comply using the emissions trading provisions of the applicable implementation plan; and
 - (5) The pollutants emitted subject to the emissions trade. The notice shall also refer to the provisions in the applicable implementation plan with which the source will comply and that provide for the emissions trade.

B.28 Changes Under Section (502)(b)(10) of the Clean Air Act [326 IAC 2-7-20(b)]

The Permittee may make Section 502(b)(10) of the Clean Air Act changes without a permit revision, subject to the constraint of 326 IAC 2-7-20(a) and the following additional conditions:

- (a) For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or conditions that is no longer applicable as result of the change.

- (b) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 PSD Minor Source Status

The volatile organic compounds (VOC) input usage shall be limited to 249 tons per 365 days rolled on a daily basis. Emissions shall include those emissions from all emission points at the source including those that are insignificant as defined in 326 IAC 2-7(20). Compliance with this condition and all other conditions will make 326 IAC 2-2 , Prevention of Significant Deterioration, and 40 CFR 52.21 not applicable.

C.2 Operation of Equipment [326 IAC 2-7-6(6)]

- (a) All equipment that may emit pollutants into the ambient air shall be properly operated to meet the requirements of this permit.
- (b) Unless otherwise stated in this permit, all air pollution control equipment in this permit shall be operated at all times that the emission unit (s) vented to the control equipment is (are) in operation.
- (c) The Permittee shall perform all necessary maintenance and make all necessary attempts to keep all air pollution control equipment in proper operating condition at all times such that the requirements of this permit are met.

C.3 Opacity

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following:

- (a) Visible emissions shall not exceed an average of forty (40%) opacity in twenty-four (24) consecutive readings,
- (b) Visible emissions shall not exceed sixty (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

C.4 Open Burning

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. This condition is not federally enforceable.

C.5 Fugitive Dust Emissions

The Permittee shall be in violation of 326 IAC 6-4 if any of the criteria specified in 326 IAC 6-4-2 (1) through (4) are violated.

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

Prior to the commencement of any demolition or renovation activities, the Permittee shall use an Indiana accredited asbestos inspector to inspect thoroughly the affected facility or part of the facility where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos containing material. The requirement that the inspector be accredited is federally enforceable.

Compliance Monitoring [326 IAC 2-7-5(1) [326 IAC2-7-6(1)]

C.7 Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) Has certified that all facilities at this source are in compliance with all applicable requirements;
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and
- (c) Will continue to comply with such requirements that become effective during the term of this permit.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (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
 - (3) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

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

All required notifications shall be submitted to:

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

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

Corrective Action and Response Steps

C.9 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) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on July 18, 1996.
- (b) If the ERP is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (c) 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.
- (d) 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.
- (e) Upon direct notification by IDEM, OAM,, 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]

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

C.10 General Record keeping Requirements:

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location and available to inspect at the source within one hour upon verbal request of an IDEM, OAM representative, for a minimum of three (3) years. They may be stored elsewhere for the remaining two years providing they are made available within thirty (30) days after written request.

- (b) Records of required monitoring information shall include:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.

- (c) Support information shall include:
 - (1) Copies of all reports required by this permit.;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) All preventive maintenance and corrective actions that were implemented. Such records shall briefly describe what was done and indicate who did it;
 - (5) Relevant work purchases orders;
 - (6) Quality assurance and quality control procedures;
 - (7) Operator's standard operating procedures;

 - (8) Manufacturer's specifications or their equivalent; and
 - (9) Equipment "troubleshooting" guidance.

C.11 General Reporting Requirements

- (a) Reports required by Conditions in Section D of this permit shall be submitted to:
- Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be timely if:
- (1) Delivered by U.S. mail and postmarked on or before the date it is due; or
 - (2) Delivered by any other method if it is received and stamped by IDEM, OAM on or before the date it is due.
- (c) Unless otherwise specified in this permit, any semi-annual report shall be submitted within thirty (30) days of the end of the six (6) month reporting period.
- (d) All instances of deviations from any requirements of this permit must be clearly identified in such reports.
- (e) Any corrective actions taken as a result of an exceedance of a limit, an excursion from the parametric values, or malfunction that may have caused excess emissions must be clearly identified in such reports.

C.12 Emission Statement [326 IAC 2-6] [326 IAC 2-7-5(3)(C)(iii)]

- (a) The Permittee shall submit a certified, annual emission statement that meets the requirements of 326 IAC 2-6 (Emission Reporting). This annual statement must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the time period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year). The annual statement must be submitted to:
- Indiana Department of Environmental Management
Data Support Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015
- (b) This annual emission statement required by this permit shall be timely if:
- (1) Delivered by U.S. mail and postmarked on or before the date it is due; or
 - (2) Delivered by any other method if it is received and stamped by IDEM, OAM, on or before the date it is due.

C.13 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]

-
- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
 - (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
 - (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
 - (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
 - (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
 - (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.14 Compliance with 40 CFR Part 82

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

- (1) One (1) Super Long Span Line which includes two (2) dip-and-drain paint tanks, and a GMAW welding area. This line is capable of producing 10 tons of metal joists, or trusses per hour.
- (2) One (1) Long Span Line which includes two (2) dip-and-drain paint tanks, and a GMAW welding area. This line is capable of producing 10 tons of metal joists, or trusses per hour.
- (3) One (1) Short Span Line which includes one (1) vacuum-assisted flow coater, and a GMAW welding area. This line is capable of producing 9 tons of metal joists, or trusses per hour.
- (4) One (1) Combination Span Line which includes two (2) dip-and-drain paint tanks, and a GMAW welding area. This line is capable of producing 12 tons of metal joists, or trusses per hour.
- (5) One (1) Bridging Line which includes two (2) dip-and-drain paint tanks, one (1) vacuum coater and a GMAW welding area. This line is capable of producing 10 tons of bridging per hour.
- (6) One (1) Deck Line which include one (1) roll coater and is capable of producing 40 tons of metal decks per hour, and
- (7) One (1) Middle Span Line which includes one (1) vacuum-assisted flow coater, and a welding area. This line is capable of producing 10 tons of metal joists and trusses per hour.

Emission Limitations

D.1.1 Volatile Organic Compound (VOC) [326 IAC 8-2-9] (Miscellaneous Metal Coating)

That pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations) the volatile organic compounds (VOC) content of the coatings applied to metal trusses and joists fabricated from the Combination Span Line, Super Long Span Line, Long Span Line, Short Span Line and the Bridging Line, Deck Line and the Middle Span Line shall be limited to:

Air Dried and Forced Warm Air Dried Coatings: 3.5 pounds of VOC per gallon of coating less water.

D.1.2 PSD VOC Minor Limit Requirement [326 IAC 2-2] [40 CFR 52.21]

- (a) Pursuant to Construction Permit CP 033-8367, issued on April 18, 1997 that upon the construction of the modification on the Middle Span Line, the plant wide VOC input usage shall be limited to 249 tons per 365 day total rolled on a daily basis. Compliance with this condition shall render the 326 IAC 2-2, the Prevention of Significant Deterioration (PSD) and 40 CFR 52.21 not applicable.

During the first 365 days of operation of the facilities under the modification of the Middle Span Line, the VOC input usage shall be limited such that its total usage divided by the accumulated days of operation shall not exceed 0.68 ton/day.

- (b) After the first 365 days of operation of the facilities under the modification of the Middle Span Line, the VOC input usage from the seven (7) production lines shall be limited

such that the VOC emissions will not exceed 249 tons per year, rolled on a daily basis. Compliance with this condition shall render the 326 IAC 2-2, the Prevention of Significant Deterioration (PSD) and 40 CFR 52.21 not applicable.

D.1.3 PSD PM Minor Limitation

Any change or modification which may increase the total potential PM emissions from the welding operation to 250 tons per year must be approved by the Office of Air Management (OAM) and be subject to the requirements of 326 IAC 2-2, the Prevention of Significant Deterioration (PSD) and 40 CFR 52.21. This operation condition also satisfies the requirements of 326 IAC 6-3-2.

Compliance and Testing Requirements [326 IAC 2-7-6(1)]

D.1.4 Testing

There are no testing required for these facilities.

Record keeping and Reporting Requirements [326 IAC 2-7-5(3)]

D.1.5 Volatile Organic Compound (VOC) Usage

The Permittee shall maintain records, in accordance with Section C -General Record Keeping Requirements, of the materials used that contain any VOCs. The record shall be complete and sufficient to establish compliance with the VOC usage limits and/or VOC emission limits established in Condition D.1.2. The records shall contain a minimum of the following:

- (a) The weight of VOC containing material used, including purchase orders and invoices necessary to verify the type and amount used;
- (b) The VOC content (weight percent) of each material used; This will be based upon a Method 24 A test or formulation data, provided that the formulation data is equivalent to a Method 24A test.

To show compliance with Condition D.1.1 (daily volume-weighted average of all coatings applied in a coating line, lb/gallon less water) the record keeping requirement is as follows: daily usage of VOC content of each coating shall be maintained and made available upon request.

Vulcraft, A Division of Nucor Corporation
St. Joe, Indiana
Reviewer- Aida De Guzman

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St. Joe, Indiana
Reviewer- Aida De Guzman

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

Technical Support Document (TSD) for a Part 70 Operating Permit

Source Name: Vulcraft , A Division of Nucor Corporation
Source Location: 6610 County Road 60, St. Joe, Indiana 46785
County: DeKalb County
Operation Permit No.: T-033-6286, Plt ID- T-033-00027
Permit Reviewer: Aida De Guzman

The above company has submitted a Part 70 Application to the Office of Air Management (OAM), relating to the operation of a plant that fabricates metal joists and trusses for building construction industry.

The source consists of the following approvals with the following emission units:

FACILITY ID	TYPE OF COATING APPLICATION	CAPACITY (ton ^{metal} /hr)	CONSTRUCTION PERMIT NO.	PERMIT ISSUANCE DATE	CONSTRUCTION DATE
#1 Super Long Span Line	One (1) dip and drain paint application system	10	CP-033-1985	August 29, 1981	August, 1981
	GMAW Welding area	10	CP-033-1985	August 29, 1981	August, 1981
#2 Long Span Line	One (1) dip and drain paint application system	10	CP-033--3662	October 13, 1994	September, 1974
	GMAW Welding Area	10	CP-033-3662	October 13, 1994	September, 1974
#3 Middle Span Line	One (1) dip and drain paint application system will be removed and will be replaced by one (1) vacuum-assisted flow coater, a drying oven with two natural gas-fired furnaces, rated at 1.0 mmBtu/hr.	10			Proposed
	GMAW Welding Area	10	CP-033-3662	October 13, 1994	March, 1972

#4 Short Span Line	One (1) dip and drain paint application system	10	CP-033-3662	October 13, 1994	March, 1972
GMAW Welding Area	-	9	CP-033-3662	October 13, 1994	March, 1972
#5 Combination Span Line	One (1) dip and drain paint application system	12	CP-033-3662	October 13, 1994	October, 1985
GMAW Welding Area	-	12	CP-033-3662	October 13, 1994	October, 1985
#6 Bridging Line	One (1) dip and drain paint application and one (1) vacuum flowcoater paint application system	10	CP-033-3662	October 13, 1994	March, 1972
GMAW Welding Area	-	10	CP-033-3662	October 13, 1994	March, 1972
#7 Deck Line	One (1) roll coater	40	CP-033-3662	October 13, 1994	October, 1977

This application also include the proposed conversion to water based coatings at the middle span line.

The source also includes the following insignificant activities:

- (1) Natural gas-fired combustion facilities with heat input equal to or less than ten million (10,000,000) Btu per hour.
- (2) Propane or LPG, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.
- (3) 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.
- (4) Combustion source flame safety purging on startup.
- (5) 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.
- (6) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.
- (7) Vessels storing lubricating oils, hydraulic oils, and machining fluids.
- (8) Packaging lubricants or greases.
- (9) Filling drums, pails or other packaging containers with lubricating oils, waxes, and greases.
- (10) Application of oils, greases, lubricants, or nonvolatile materials applied as temporary protective coatings.
- (11) Machining where an aqueous cutting coolant continuously floods the machining interface.
- (12) Cleaners and solvents characterized as follows:

- a) having vapor pressure equal to or less than 2kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100°F) or;
 - b) having a vapor pressure equal to or less than 0.7 kPa; 5mmHg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
 - c) The following equipment related to manufacturing activities not resulting in the emissions of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (13) Infrared cure equipment.
 - (14) Cutting 200,000 linear feet or less of one (1) inch plate for structural steel and bridge fabrication activities.
 - (15) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
 - (16) Any operation using aqueous solutions containing less than 1% by weight of VOCs, excluding HAPs.
 - (17) Process vessel degassing and cleaning to prepare for internal repairs.
 - (18) 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.
 - (19) 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.
 - (20) On-site fire and emergency response training approved by the department.
 - (21) Natural gas turbines or reciprocating engines not exceeding 16,000 horsepower, and
 - (22) Stationary fire pumps

The source has no outstanding Enforcement actions (i.e. NOV's, Agreed Orders):

Vulcraft is an existing major source. The source seeks to obtain a federally enforceable emissions cap that limits the volatile organic compounds (VOC) emissions to less than 250 tons per year, making them a "minor source". Each line's synthetic minor limit will be removed since as a minor, the Prevention of Significant Deterioration (PSD) cannot apply.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit be approved. This recommendation is based on the following facts and conditions:

An incomplete Part 70 permit application for the purposes of this review was received on July 18, 1996. Additional information was received on August 21, 1996.

Potential to Emit (PTE) Calculations

Welding Emissions:

Emission Factors are from AP-42, Table 12.19-1-2

Methodology:

Emissions = maximum throughput, lb/hr * emission factor, lb pollutant/1000lb electrode
* 8760 hr/yr * ton/2000 lb * no of welding stations

i) Super Long Span Line:

$$\begin{aligned} \text{PM10} &= 94.7 \text{ lb/hr} * 5.2 \text{ lb/1000 lb electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} \\ &\quad * 1 \text{ station} \\ &= 2.15 \text{ ton/year} \end{aligned}$$

$$\begin{aligned} \text{Chromium} &= 94.7 \text{ lb/hr} * 0.01 \text{ lb/1000 electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} * 1 \\ &\quad \text{station} \\ &= 0.004 \text{ ton/year} \end{aligned}$$

$$\begin{aligned} \text{Manganese} &= 94.7 \text{ lb/hr} * 3.18 \text{ lb/1000 electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} * 1 \\ &\quad \text{station} \\ &= 1.3 \text{ ton/year} \end{aligned}$$

ii) Long Span Line:

$$\begin{aligned} \text{PM10} &= 94.7 \text{ lb/hr} * 5.2 \text{ lb/1000 lb electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} \\ &\quad * 1 \text{ station} \\ &= 2.15 \text{ ton/year} \end{aligned}$$

$$\begin{aligned} \text{Chromium} &= 94.7 \text{ lb/hr} * 0.01 \text{ lb/1000 electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} * 1 \\ &\quad \text{station} \\ &= 0.004 \text{ ton/year} \end{aligned}$$

$$\begin{aligned} \text{Manganese} &= 94.7 \text{ lb/hr} * 3.18 \text{ lb/1000 electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} * 1 \\ &\quad \text{station} \\ &= 1.3 \text{ ton/year} \end{aligned}$$

iii) Combination Span Line:

$$\begin{aligned} \text{PM10} &= 113.6 \text{ lb/hr} * 5.2 \text{ lb/1000 lb} * 8760 \text{ hr/yr} * \text{ton/2000 lb} * 1 \text{ station} \\ &= 2.6 \text{ ton/year} \end{aligned}$$

$$\begin{aligned} \text{Chromium} &= 113 \text{ lb/hr} * 0.01 \text{ lb/1000 lb electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} \\ &\quad * 1 \text{ station} \\ &= 0.005 \text{ ton/year} \end{aligned}$$

$$\begin{aligned} \text{Manganese} &= 113 \text{ lb/hr} * 3.18 \text{ lb/1000 lb electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} \\ &\quad * 1 \text{ station} \\ &= 1.6 \text{ ton/year} \end{aligned}$$

iv) Bridging Line:

$$\begin{aligned} \text{PM10} &= 29.6 \text{ lb/hr} * 5.2 \text{ lb/1000 lb electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} \\ &\quad * 1 \text{ station} \\ &= 0.67 \text{ ton/year} \end{aligned}$$

$$\begin{aligned} \text{Manganese} &= 29.6 \text{ lb/hr} * 318 \text{ lb/1000lb electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} \\ &= 0.41 \text{ ton/year} \end{aligned}$$

v) Middle Span Line:

$$\begin{aligned} \text{PM10} &= 94.7 \text{ lb/hr} * 5.2 \text{ lb/1000 lb electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} \\ &\quad * 1 \text{ station} \\ &= 2.15 \text{ ton/year} \end{aligned}$$

$$\begin{aligned} \text{Chromium} &= 94.7 \text{ lb/hr} * 0.01 \text{ lb/1000 electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} * 1 \\ &\quad \text{station} \\ &= 0.004 \text{ ton/year} \end{aligned}$$

$$\begin{aligned} \text{Manganese} &= 94.7 \text{ lb/hr} * 3.18 \text{ lb/1000 electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} * 1 \\ &\quad \text{station} \\ &= 1.3 \text{ ton/year} \end{aligned}$$

vi) Short Span Line:

$$\begin{aligned} \text{PM10} &= 85.2 \text{ lb/hr} * 5.2 \text{ lb/1000 lb electrode} * 8760 \text{ hr/year} * \text{ton/2000 lb} \\ &\quad * 1 \text{ station} \\ &= 1.9 \text{ ton/year} \end{aligned}$$

$$\begin{aligned} \text{Manganese} &= 85.2 \text{ lb/hr} * 3.18 \text{ lb/1000 lb electrode} * 8760 \text{ hr/yr} * \text{ton/2000 lb} \\ &\quad * 1 \text{ station} \\ &= 1.2 \text{ ton/year} \end{aligned}$$

vii) Deck Line: No welding

$$\begin{aligned} \text{Welding PM10 Total Emissions} &= 3 \text{ PM 10 fr. all lines} \\ &= 11.62 \text{ tons/year} \end{aligned}$$

Welding Chromium Total Emissions = Negligible

Welding Manganese Total Emissions = 7.11 tons/year

County Attainment Status

The source is located in DeKalb County.

Pollutant	Status
TSP	attainment
PM10	attainment
SO ₂	attainment
NO ₂	attainment
CO	attainment
VOC	attainment

Federal Rule Applicability

There are no New Source Performance Standards (326 IAC 12) applicable to this facility.

State Rule Applicability

326 IAC 2-2: #1 Super Long Span Line, #5 Combination Span Line, and #7 Deck Line are subject to this rule, since they were constructed after August 7, 1977. However, Vulcraft who is an existing major source requested a plant wide volatile organic compounds emissions cap of 249 tons per year.

The source had converted all solvent based coating usage to water based coatings plant wide including the last line (middle span line) which is proposed in this application. Therefore, with this new limit, the source is reclassified as a minor source, and each line limitation will be removed since 326 IAC 2-2 will not apply.

The proposed change in the Middle Span Line will not affect the new plant wide emissions limit of 245 tons per year.

The company has submitted the VOC emissions calculation from the insignificant activities, which are at 3.85 tons per year. This calculation has been verified and found to be correct. These activities potential emissions will be subtracted from the 249 tons per year limit. Therefore, the sourcewide limit will be $249 - 3.85 = 245.0$ tons per year.

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

Surface coating emission limitations as specified under 326 IAC 8-2-9 are applicable to sources which commenced construction after November 1, 1980 and have a potential VOC emissions of 25 tons per year or greater.

#5 Combination Span Line has commenced construction in October, 1985, #1 Super Long Line has commenced construction in August, 1981, and #3 Middle Span Line is proposed to be modified. Therefore, these lines are subject to this rule. 326 IAC 8-2-9 mandates a limit in the VOC emissions to 3.5 pounds per gallon of coating, less water. These lines are in compliance with this rule (see page 1 of 1 TSD Appendix A for emission calculations).

326 IAC 8-6: Organic solvent emissions limitations as specified under this rule are applicable to sources located anywhere in the state commencing construction after October 1974, and prior to January 1, 1980, with potential emissions of 100 tons per year or greater.

#2 Long Span line, built in 1974 is subject to this rule. Although its potential VOC emissions are more than 100 tons per year, the requirements of this rule do not apply to this pursuant to Section (b)(4) of this rule.

326 IAC 6-3: Particulate Emissions Limit

The welding operation in each line is subject to this rule. This rule mandates the following allowable PM emissions from these welding facilities, using this equation:

$$E = 4.10 P^{0.67}$$

Where: E = PM allowable PM emissions in pounds per hour
P = process weight rate, ton/hr

Facility	Process Weight Rate, ton/hr	Allowable PM Emissions, lb/hr
Super Long Span Line	0.047	0.53
Long Span Line	0.047	0.53
Combination Span Line	0.06	0.62
Bridging Span Line	0.0148	0.24
Middle Span Line	0.047	0.53
Short Span Line	0.043	0.50
TOTAL	0.25	7.45

The welding operation is in compliance since its PM10 emissions of 2.6 pounds per hour (11.62 tons/year) do not exceed the PM allowable emissions of 7.45 pounds per hour.

326 IAC 2-6: This rule applies to Vulcraft since its potential volatile organic compounds (VOC) emissions exceeds 100 tons per year. The owner or operator of this source must annually submit an emissions statement to IDEM-OAM. This submittal must be received by the department each year by July 1.

Compliance Monitoring

The Span Lines require a Compliance Monitoring Plan.

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 189 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Part 70 Application Form GSD-08.

This source will emit levels of air toxics greater than those that constitute major source applicability according to Section 112 of the Clean Air Act. The concentrations of these air toxics were modeled and found to be (in worst case possible) as follows: The concentrations of these air toxics were compared to the Permissible Exposure Limits (PEL) developed by the Occupational Safety and Health Administration (OSHA). The Office of Air Management (OAM) does not have at this time any specific statutory or regulatory authority over these substances. The applicant has been notified in writing that the air toxic emissions exceed the major source applicability levels stated by Section 112 of the Clean Air Act Amendments, and that it would be beneficial, both to the applicant and to the public, for the applicant to take steps to reduce or

eliminate these air toxic emissions.

Air Toxic Analysis

Pollutant	Rate @ 8760 hr/yr (ton/yr)	Rate (ton/yr) due to VOC Input Limit
Glycol Ethers	79.80	22.35
Manganese	7.10	7.10
TOTAL	86.90	29.45

Methodology:

Rate ton/yr = (rate lb/hr)*(hr/yr of operation)* ton/2000 lb

Conclusion

The operation of this structural metal products fabrication will be subject to the conditions of the attached proposed **Part 70 Permit No. T-033-6286-00027**.

Table (I)

Emission Unit:		Combination Span Line, Super Long Line, & Middle Line		
Date of Construction:		October, 1985, August, 1981, & being proposed respectively		
Alternative Scenario:		n/a		
Pollution Control Equipment:		none		
General Description of Requirement:	Coatings VOC emissions in pounds per gallon of coating less water			
Numerical Emission Limit:	3.5 pounds per gallon less water			
Regulation/Citation:	326 IAC 8-2-9			
Compliance Demonstration:	Record keeping of VOC usage, including the MSDS sheets Inspection of equipment lines for any leakage			
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:	n/a			
Testing Method/Analysis:	n/a			
Testing Frequency/Schedule:	n/a			
Submittal of Test Results:	n/a			
COMPLIANCE MONITORING				
Monitoring Description:				
Monitoring Method:	Record keeping of VOC usage, including the MSDS sheets. When any new coatings are introduced into the lines, the VOC content, water content, volume solids, and weight solids of the coating shall be determined or MSDS of these coatings shall be submitted with the above information.			
Monitoring Regulation/Citation:	326 IAC 2-7-6 (1)			
Monitoring Frequency:	Daily			
RECORD KEEPING				
Parameter/Pollutant to be Recorded:	VOC			
Recording Frequency:	Daily			
Submittal Schedule of Reports:	n/a			
REPORTING REQUIREMENTS				
Information in Report:	Amount of VOC containing material used, VOC wt. % content of each material, density,			
Reporting Frequency/Submittal:	n/a			
Additional Comments:				

(Table II)

Emission Unit:		Plantwide		
Alternative Scenario:		n/a		
Pollution Control Equipment:		none		
General Description of Requirement:	VOC Input Usage Limit			
Numerical Emission Limit:	245 tons per year			
Regulation/Citation:	326 IAC 2-2			
Compliance Demonstration:	Record keeping of and reporting of VOC usage (purchase orders, & invoices including the MSDS sheets			
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:	n/a			
Testing Method/Analysis:	n/a			
Testing Frequency/Schedule:	n/a			
Submittal of Test Results:	n/a			
COMPLIANCE MONITORING				
Monitoring Description:				
Monitoring Method:	Record keeping of and reporting of VOC usage (purchase orders, & invoices including the MSDS sheets			
Monitoring Regulation/Citation:	326 IAC 2-7-6 (1)			
Monitoring Frequency:	Daily			
RECORD KEEPING				
Parameter/Pollutant to be Recorded:	VOC			
Recording Frequency:	Daily			
Submittal Schedule of Reports:	monthly			
REPORTING REQUIREMENTS				
Information in Report:	Amount of VOC containing material used, VOC wt. % content of each material			
Reporting Frequency/Submittal:	Quarterly			
Additional Comments:	-			

Indiana Department of Environmental Management Office of Air Management

Second Addendum to the Technical Support Document for Part 70 Operating Permit (Title V)

Source Name: Vulcraft, A Division of Nucor Corporation
 Source Location: 6610 County Road 60, St. Joe, Indiana 46785
 County: DeKalb
 Title V Permit No.: T-033-6286-00027
 SIC Codes: 3441 & 3444
 Permit Reviewer: Aida De Guzman

On May 16, 1997 the Office of Air Management (OAM) had provided the USEPA and the source a second draft of the TV permit which incorporates the comments and responses explained from the First Addendum to the TSD for comments. This Second Addendum to the TSD provides the changes to be made after the second draft of the permit. Vulcraft, A Division of Nucor Corporation manufactures metal joists, trusses and decking for the building industry. On July 11, 1997 Vulcraft, A Division of Nucor Corporation made the following comments:

1. Comment:

- (a) Section A.2 , Page 4 of 27 incorrectly indicates that Bridging Line is capable of producing 12 tons of joists and trusses per hour. The Bridging line only produces bridging at a rate of 10 tons/hour.
- (b) Paragraph (7) of Section A.2 includes descriptions of two natural gas-fired furnaces associated with the drying oven. These units should not be listed in Condition A.2 since they are identified as insignificant activities.

1. Response: IDEM

- (a) Section A.2, Page 4 of 27 pertaining to the Bridging Line has been corrected.
- (b) Paragraph (7) of Section A.2 was rewritten to remove the insignificant activities (drying ovens), since they were already addressed in Section A.3(1) on Page 5 of 7.

2. Comment:

Section B.13 on Page 10 of 27, paragraph (b), change "(l)" to "(i)".

2. Response: IDEM

Section B.13 on Page 10 of 27, paragraph (b) has been rewritten in one paragraph which deleted items (i) and (ii) in the draft TV permit.

3. Comment:

Section C.7 on Page 20 of 27, the requirements to make records available within one hour after verbal request and within 30 days after written request should be deleted.

These reporting timeframes are not requirements under 326 IAC 2-7-5(3), and are not

reasonable or appropriate under many circumstances.

3. Response: IDEM

IDEM believes that one (1) hour upon verbal request is a reasonable time for the Permittee to have the records available for inspection at the source by IDEM's representative.

On paragraph (a) of Section C.7, the following line will be inserted between the words "available" and "within": "to inspect at the source".

4. Comment:

On Section D Page 23 of 27 item (e) and (g) in the first permit draft for facility description, the Bridging and Middle Span Lines should be revised to make it consistent with the comment no.1.

4. Response: IDEM

This section has been revised in the final TV permit.

5. Comment:

Section D.1.2, Page 23 of 27 the method of compliance determination during the first year of operation is not clear. The following paragraph should be added in this section:

"During the first 365 days of operation, VOC material usage from the seven (7) production lines shall be limited such that the total VOC emissions divided by the number of accumulated days will not exceed 0.68 tons per day".

5. Response: IDEM

Section D.1.2, has been revised to carry over the second paragraph of the Operation Condition no. 7 in the Construction Permit CP 033-8367, issued on April 18, 1997 which pertains to the first 365 days compliance method.

6. Comment:

Section D.1.3, Page 24 of 27 truncated PM allowable emissions for the welding operation should be deleted in the permit. They are inappropriate because potential emissions as defined in 326 IAC 2-2-1, total only 12 tons per year, regardless of PM emission limits in the proposed condition. This is significantly lower than the PSD applicability level of 250 tons per year.

6. Response: IDEM

This Section was rewritten in the final TV permit. The allowable PM emissions were deleted and the final condition should read as follows:

"Any change or modification which may increase the total PM emissions from the welding operation to 250 tons per year or more must be approved by the Office of Air Management (OAM) and be subject to 326 IAC 2-2 the Prevention of Significant Deterioration (PSD) and 40 CFR 52.21.

7. Comment:

Section D.1.6 which required the recordkeeping of the welding rod usage in the first permit draft should be deleted as described in comment no.6.

The GMAW welding equipment on Vulcraft's production lines uses electrode wire and not welding rod.

7. Response: IDEM

This section has been deleted in the final TV permit.

8. IDEM

Some permit paragraph numbers were corrected from the first TSD Addendum. The final permit was corrected to reflect the current paragraph numbers.

Indiana Department of Environmental Management Office of Air Management

Third Addendum to the Technical Support Document for Part 70 Operating Permit (Title V)

Source Name: Vulcraft, A Division of Nucor Corporation
Source Location: 6610 County Road 60, St. Joe, Indiana 46785
County: DeKalb
Title V Permit No.: T-033-6286-00027
SIC Codes: 3441 & 3444
Permit Reviewer: Aida De Guzman

OAM, IDEM made the following changes:

Vulcraft's original draft Part 70 permit did not have the following conditions, and are being added in the final permit and numbered as follows:

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

Prior to the commencement of any demolition or renovation activities, the Permittee shall use an Indiana accredited asbestos inspector to inspect thoroughly the affected facility or part of the facility where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos containing material. The requirement that the inspector be accredited is federally enforceable.

Compliance Monitoring Requirements

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (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
 - (3) Waste disposal site.

- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

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

*The proposed condition B.25 Episode Alert Plans in Vulcraft's TV has been renamed as Emergency Reduction Plans and renumbered as C.9 in the final operating permit and will be under **Corrective Actions and Response Steps**.*

B.25 Episode Alert Plans [326 IAC 1-5]

The Episode Alert Plan (ERP) submitted pursuant to 326 IAC 1-5- Episode Alert Levels, is hereby approved.

Upon direct notification by the commissioner or authorized representative that a specific air pollution episode alert is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. The required actions shall remain in effect until the commissioner or authorized representative has declared that the next level is in effect.

Corrective Actions and Response Steps.

C.9 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) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on July 18, 1996.
- (b) If the ERP is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

- (c) 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.
- (d) 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.
- (e) Upon direct notification by IDEM, OAM,, 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.13 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]

- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

The rest of the conditions in the draft Part 70 operating permit will be renumbered accordingly.

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

Part 70 Permit Quarterly Report

Source Name: Vulcraft, A Division of Nucor Corporation
 Source Address: 6610 County Road 60, St. Joe, Indiana 46785
 Part 70 Permit No.: T033-6286-00027
 Facility: Plant wide
 Parameter: Volatile Organic Compounds
 Limit: The VOC input usage from all the production lines shall be limited to 249 tons per 365 day total rolled on a daily basis.

Year: _____

Day	Tons This Day	Tons Past 364 Days	Tons Past 365 Days	Day	Tons This Day	Tons Past 364 Days	Tons Past 365 Days
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16				no. of deviations			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
 Deviation has been reported on: _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

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

**PART 70 PERMIT
CERTIFICATION**

Source Name: Vulcraft, A Division of Nucor Corporation
Source Address: 6610 County Road 60, St. Joe, Indiana 46785
Part 70 Permit No.: T033-6286-00027

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:

- 9 Deviation Occurrence Reporting Form (For Control Equipment Monitoring)
- 9 Deviation Occurrence Reporting Form (For Material Usage, Quality, Etc.)
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 Other (specify) _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted . Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY/DEVIATION OCCURRENCE REPORT**

Source Name: Vulcraft, A Division of Nucor Corporation
Source Address: 6610 County Road 60, St. Joe, Indiana 46785
Mailing Address: P. O. Box 1000, St Joe, Indiana 46785
Part 70 Permit No.: T033-6286-00027

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2	
9 1.	This is an emergency as defined in 326 IAC 2-7-1(12)
C	The Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
C	The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
9 2.	This is a deviation, reportable per 326 IAC 2-7-5(3)(c)
C	The Permittee must submit notice in writing within ten (10) calendar days

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/Deviation:
Describe the cause of the Emergency/Deviation:

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency/deviation:
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: _____

Mail to: Permit Administration & Development Section
Office Of Air Management
100 North Senate Avenue
P. O. Box 6015
Indianapolis, Indiana 46206-6015

Vulcraft, A Division of Nucor Corporation
P. O. Box 1000
St. Joe, Indiana 46785

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

- 1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
- 2. I hold the position of _____ for _____.
(Title) (Company Name)
- 3. By virtue of my position with _____, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of _____.
(Company Name)
- 4. I hereby certify that Vulcraft, A Division of Nucor Corporation, 6610 County Road 60, St. Joe, Indiana, 46785 has constructed one (1) vacuum-assisted flow coater, a drying oven with two (2) natural gas-fired furnaces, rated at 1.0 million Btu per hour (mmBtu/hr) to replace one (1) dip-and-drain paint tanks in the Middle Span Line in conformity with the requirements and intent of the Part 70 Operating Permit application received by the Office of Air Management on July 18, 1996 and as permitted pursuant to **Part 70 No. T-033-6286, Plt ID No. 033-00027** issued on _____

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature

Date

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of
Indiana on this _____ day of _____, 19 _____.
My Commission expires: _____

Signature

Name (typed or printed)