



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant
DATE: December 21, 2006
RE: Tell City Marine Contractors, LLC / 123-23259-00026
FROM: Nisha Sizemore
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 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, 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 and IC 13-15-6-1 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 of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar 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.

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.

Enclosures
FNPER.dot 03/23/06



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Indianapolis, Indiana 46204-2251
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NEW SOURCE CONSTRUCTION AND FEDERALLY ENFORCEABLE STATE OPERATING PERMIT OFFICE OF AIR QUALITY

**Tell City Marine Contractors, LLC
926 S. Boundary Street
Tell City, Indiana 47586**

(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. 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.

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17. 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 2-8-11.1, applicable to those conditions.

| | |
|---|--|
| Operation Permit No.: 123-23259-00026 | |
| Original signed by: Nisha Sizemore, Chief Permits Branch Office of Air Quality | Issuance Date: December 21, 2006 Expiration Date: December 21, 2011 |

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.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 2-8-3(b)]

The Permittee owns and operates a stationary ship manufacturing plant.

| | |
|------------------------------|--|
| Authorized Individual: | Owner |
| Source Address: | 926 S. Boundary Street, Tell City, Indiana 47586 |
| Mailing Address: | 4500 Bowling Blvd, Suite 100, Louisville, Kentucky 40207 |
| General Source Phone Number: | 502-891-4496 |
| SIC Code: | 3731 |
| County Location: | Perry |
| Source Location Status: | Attainment for all criteria pollutants |
| Source Status: | Federally Enforceable State Operating Permit Program Minor Source, under PSD Minor Source, under Section 112 of the Clean Air Act Not 1 of 28 Source Categories |

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

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

- (a) One (1) paint booth identified as EU-B, constructed in 2006, with a maximum capacity of 0.10 units per hour (one unit is equivalent to one marine vessel or 325 tons of steel), using airless spray guns to apply surface coating materials to metal marine vessels, with particulate emissions controlled by dry filters, and exhausting to stack S-2.
- (b) One (1) paint booth identified as EU-C, constructed in 2006, with a maximum capacity of 0.50 units per hour (one unit is equivalent to one marine vessel or 325 tons of steel), using airless spray guns to apply surface coating materials to metal marine vessels, with particulate emissions controlled by dry filters, and exhausting to stack S-3.
- (c) Welding and cutting operations identified as EU-D, with a maximum throughput capacity of 32.5 tons of steel per hour, constructed in 2006, including the following:
 - (1) One (1) plasma cutting machine, with three torch heads, and a flow rate of 120 cubic feet per hour at 120 psi, with particulate emissions controlled by a dust collector.
 - (2) One (1) flame cutting machine, with three torch heads, and a flow rate of 90 cubic feet per hour at 120 psi.
 - (3) Hand torches, with ten torch heads, and a flow rate of 90 cubic feet per hour at 120 psi.
 - (4) Flux Cored Arc Welding (FCAW) operations, with a total maximum capacity of 7,527 pounds of electrode per hour.
 - (5) Submerged Arc Welding (SAW) operations, with a total maximum capacity of 397 pounds of electrode per hour.

- (6) Shielded Metal Arc Welding (SMAW) operations, with a total maximum capacity of 910 pounds of electrode per hour.

Note: The combined cutting rate of the plasma cutting machine, flame cutting machine, and hand torches is 120 inches per minute.

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

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

- (a) One (1) shot blast unit identified as EU-A, constructed in 2006, with a maximum throughput capacity of 32.5 tons of steel per hour and 144 pounds of shot per hour, with particulate emissions controlled by a baghouse, and exhausting to stack S-1.
- (b) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour including the following:
 - (1) Four (4) natural gas-fired heaters, constructed in 2006, with a heat input capacity of 200,000 Btu per hour.
 - (2) Six (6) natural gas-fired heaters, constructed in 2006, with a heat input capacity of 600,000 Btu per hour.
 - (3) Twenty (20) natural gas-fired infrared heaters, constructed in 2006, with a heat input capacity of 90,000 Btu per hour.
- (c) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.
- (d) Machining where an aqueous cutting coolant continuously floods the machining interface.
- (e) Degreasing operations consisting of cold cleaner degreasers without remote solvent reservoirs, constructed in 2006, each having a maximum capacity of 35 gallons, and that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3]
- (f) Cleaners and solvents having a vapor pressure equal to or less than 2 kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100° F).
- (g) Solvent recycling systems with batch capacity less than or equal to 100 gallons.
- (h) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (i) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (j) Asbestos abatement projects regulated by 326 IAC 14-10.
- (k) Purging of 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.
- (l) 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.
- (m) On-site fire and emergency response training approved by the department.

- (n) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.

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

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

SECTION B GENERAL CONDITIONS

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

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

B.2 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5) (Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 when prior to the start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.
- (c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

B.4 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, 123-23259-00026, 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, until the renewal permit has been issued or denied.

B.5 Term of Conditions [326 IAC 2-1.1-9.5]

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.6 Enforceability [326 IAC 2-8-6]

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

B.7 Severability [326 IAC 2-8-4(4)]

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

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

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

B.9 Duty to Provide Information [326 IAC 2-8-4(5)(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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (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.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

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

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

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

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

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent 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 Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

- (2) The compliance status;
- (3) Whether compliance was continuous or intermittent;
- (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
- (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

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

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

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, 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 Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) 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 do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) 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.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly

signed, contemporaneous operating logs or other relevant evidence that 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, and the Southwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865
Southwest Regional Office phone: (812) 380-2305;
fax: (812) 380-2304

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
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 2-8-4(3)(C)(ii) and must contain the following:

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) 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 2-8-3(c)(6) be revised in response to an emergency.

- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

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

- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.15 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to 123-23259-00026 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.16 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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

B.17 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue

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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.18 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

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

B.19 Permit Renewal [326 IAC 2-8-3(h)]

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
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 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.20 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

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

B.21 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) 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 approval required by 326 IAC 2-8-11.1 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
Permits Branch, Office of Air Quality
100 North Senate Avenue
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 2-8-15(b) through (d). 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 2-8-15(b)(2), (c)(1), and (d).

- (b) **Emission Trades [326 IAC 2-8-15(c)]**
The Permittee may trade emissions increases and decreases at in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) **Alternative Operating Scenarios Federally Enforceable State Operating Permit**
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) 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.22 Source Modification Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2326 IAC 2-8-11.1.

B.23 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC13-30-3-1]

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

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) 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, at reasonable times, 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, at reasonable times, 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, at reasonable times, 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.24 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

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

B.25 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][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) 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.26 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][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 2-8-4(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 Overall Source Limit [326 IAC 2-8]

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

(a) Pursuant to 326 IAC 2-8:

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

(b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

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

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

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

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

C.4 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.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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

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

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

C.7 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled by monitoring road and parking lot conditions and sweeping paved surfaces or applying a dust suppressant as necessary.

C.8 Stack Height [326 IAC 1-7]

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

C.9 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
Asbestos Section, Office of Air Quality
100 North Senate Avenue

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 by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **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.

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

C.10 Performance Testing [326 IAC 3-6]

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
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 certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the 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.11 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements 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 2-8-4][326 IAC 2-8-5(a)(1)]

C.12 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, 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 Branch, Office of Air Quality
100 North Senate Avenue
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 certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.13 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.

C.14 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

- (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 or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

C.15 Risk Management Plan[326 IAC 2-8-4] [40 CFR 68]

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.16 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) Upon detecting an excursion or exceedance, the Permittee shall 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 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 may include, but are not limited to, the following:

- (1) initial inspection and evaluation
 - (2) recording that operations returned 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 or standard, as applicable.
- (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;
 - (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 maintain the following records:
- (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

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

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

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

C.18 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (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, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.19 General Reporting Requirements [326 IAC 2-8-4(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. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) The first report shall cover the period commencing on the date of issuance of this permit 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.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) paint booth identified as EU-B, constructed in 2006, with a maximum capacity of 0.10 units per hour (one unit is equivalent to one marine vessel or 325 tons of steel), using airless spray guns to apply surface coating materials to metal marine vessels, with particulate emissions controlled by dry filters, and exhausting to stack S-2.
- (b) One (1) paint booth identified as EU-C, constructed in 2006, with a maximum capacity of 0.50 units per hour (one unit is equivalent to one marine vessel or 325 tons of steel), using airless spray guns to apply surface coating materials to metal marine vessels, with particulate emissions controlled by dry filters, and exhausting to stack S-3.

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

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

Construction Conditions

General Construction Conditions

D.1.1 Permit No Defense

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

D.1.2 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.

D.1.3 Modification to Construction Conditions [326 IAC 2]

All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

Operation Conditions

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

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 2-2] [326 IAC 2-8]

Pursuant to 326 IAC 2-8-4, the Permittee shall comply with the following:

- (a) Paint booth EU-B shall not use any coating or solvent which contains VOC.
- (b) The VOC input to paint booth EU-C shall be limited to less than 68.9 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Combined with the VOC emissions from other emission units at the source, the VOC emissions from the entire source are limited to less than 100 tons per twelve (12) consecutive month period; therefore, 326 IAC 2-2 and 2-7 do not apply.

D.1.5 Volatile Organic Compounds BACT [326 IAC 8-1-6]

Pursuant to 326 IAC 8-1-6 (BACT), the Permittee shall control VOC emissions from paint booth EU-C (stack S-3) with a Best Available Control Technology (BACT), which has been determined to be the following:

- (a) VOC input to the surface coating operation identified as EU-C shall be limited to less than 68.9 tons per twelve (12) consecutive month period.
- (b) The VOC content for the special marking coatings, which are defined as any coating that is used for safety or identification applications, such as markings on flight decks and ships' numbers, applied at paint booth EU-C shall not exceed 3.50 pounds per gallon. The VOC content for all other coatings applied at paint booth EU-C shall not exceed 2.83 pounds per gallon.
- (c) Airless spray application methods or their equivalent shall be used to apply coatings.
- (d) Good housekeeping practices to minimize leaks, spills and evaporative losses, which includes, but not limited, to the following:
 - (1) Sealing lids on all containers not in use or in storage.
 - (2) The purging of guns and lines into containers. The containers will be closed when guns and lines are not being purged.
 - (3) Ensure spilled materials are cleaned up.
 - (4) Performing routine maintenance on spray equipment and pumps to prevent drips and seal leaks.
 - (5) Using aqueous, exempt solvents, or citric cleaners where possible.

D.1.6 Hazardous Air Pollutants [326 IAC 2-8] [326 IAC 2-4.1]

Pursuant to 326 IAC 2-8 (FESOP), the Permittee shall comply with the following:

- (a) Paint booth EU-B shall not use any coating or solvent which contains any HAP.
- (b) The input of any single HAP to paint booth EU-C shall be less than 9 tons per twelve (12) consecutive month period with compliance determined at the end of each month; and
- (c) The input of any combination of HAPs to paint booth EU-C shall be less than 21.4 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with these limitations in conjunction with HAP emission limits for other emission units at this source makes 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-4.1 (Major Source of Hazardous Air Pollutants) not applicable.

D.1.7 Particulate [326 IAC 2-8] [326 IAC 2-2]

Pursuant to 326 IAC 2-8 and 326 IAC 2-2,

- (a) The coatings applied by paint booths EU-B and EU-C shall be limited such that total PM emissions shall not exceed 36.6 tons per twelve consecutive month period with compliance determined at the end of each month.
- (b) The coatings applied by paint booths EU-B and EU-C shall be limited such that the total PM10 emissions shall not exceed 36.6 tons per twelve consecutive month period with compliance determined at the end of each month.
- (c) The transfer efficiency of paint booths EU-B and EU-C shall not be less than 75%.
- (d) The control efficiency of the dry filters shall not be less than 80%.

Compliance with these limits will render the requirements of 326 IAC 2-8 and 2-2 not applicable with respect to PM and PM10.

D.1.8 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the surface coating operations (identified as EU-B and EU-C) shall be controlled by dry particulate filters and the Permittee shall operate the control devices in accordance with manufacturer's specifications.

D.1.9 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Compliance Determination Requirements [2-8-4(d)]

D.1.10 Volatile Organic Compounds and Hazardous Air Pollutant [326 IAC 8-1-2] [326 IAC 8-1-4]

Compliance with the VOC and HAP limitations contained in Conditions D.1.4, D.1.5, and D.1.6 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.

D.1.11 Particulate Matter (PM/PM10) Emissions Determination [326 IAC 2-8 and 2-2]

Compliance with Conditions D.1.7(a) and D.1.7(b) shall be determined by calculating the PM/PM10 emissions associated with each coating applied by paint booths EU-B and EU-C using the following equation:

$$PM/PM10 = CU \times D \times W\%S \times (1-TE/100) \times (1-CE/100) \times 1/2000$$

Where:

- PM/PM10 = The total PM/PM10 emissions (ton/month) for a given coating.
- CU = The total coating use (gal coating/month) of a given coating.
- D = The density (lb coating/gal coating) of a given coating.
- W%S = The weight percent solids (lb solids/lb coating) of a given coating.
- TE = The transfer efficiency (%) of the spray applicators. This value shall equal 75% or a value determined from the most recent valid compliance demonstration.
- CE = The control efficiency (%) of the dry filters. This value shall equal 90% or a value determined from the most recent valid compliance demonstration.

The total PM/PM10 emissions (ton/month) from paint booths EU-B and EU-C is equal to the sum of the PM/PM10 emissions associated with each coating applied by those booths.

D.1.12 Testing Requirements [326 IAC 2-1.1-11]

- (a) The Permittee shall conduct performance tests (as described in (b) and (c) below) to verify the transfer efficiency and particulate matter control efficiency requirements in Conditions D.1.1(c) and D.1.1(d).
- (b) No later than 180 days after issuance of F123-23259-00026, the Permittee shall conduct transfer efficiency testing on one (1) of the booths subject to Condition D.1.7. The testing shall be done on a booth that has not been tested in the past ten (10) years. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted using methods approved by the Commissioner and in accordance with 326 IAC 3-6-3 and Section C – Performance Testing.

- (c) No later than 180 days after issuance of F123-23259-00026, the Permittee shall conduct control efficiency testing on the dry filters used by one (1) of the booths subject to Condition D.1.7. The testing shall be done on filters that have not been tested in the past ten (10) years. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted using methods approved by the Commissioner and in accordance with 326 IAC 3-6-3 and Section C – Performance Testing.

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

D.1.13 Monitoring

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks (Stacks S-2 and S-3) while one or more of the booths are in operation. Section C – Response to Excursions and Exceedances shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit.
- (b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Response to Excursions and Exceedances for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. Section C - Response to Excursions and Exceedances shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit.

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

D.1.14 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.4, D.1.5, and D.1.6, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC content and usage limits and the HAP content and usage limits established in Conditions D.1.4, D.1.5, and D.1.6.
 - (1) The VOC and HAP content of each coating material and solvent used.
 - (2) The amount of coating material and solvent less water used on monthly 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 and total single and combined HAP usage for each month.
 - (5) The total VOC and total single and combined HAP usage for each compliance period.
- (b) To document compliance with Condition D.1.7, the Permittee shall maintain records in accordance with (1) through (2) below. Records maintained for (1) through (2) shall be taken monthly and shall be complete and sufficient to demonstrate compliance with the PM/PM10 emission limits established in Condition D.1.7.

- (1) The amount of each coating material used (as applied). Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
- (2) The density and weight percent solids of each coating material used (as applied).
- (c) To document compliance with Condition D.1.13, the Permittee shall maintain a log of weekly overspray observations, and daily and monthly inspections.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.15 Reporting Requirements

- (a) A quarterly summary of the information to document compliance with Conditions D.1.4(b), D.1.5(a), D.1.6(b), and D.1.6(c) 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 thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) A quarterly summary of the monthly PM/PM10 emissions from the booths covered by Condition D.1.7 calculated in accordance with Condition D.1.11 shall be submitted to the address listed in Section C – General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.2

FACILITY OPERATION CONDITIONS

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

- (c) Welding and cutting operations identified as EU-D, with a maximum throughput capacity of 32.5 tons of steel per hour, constructed in 2006, including the following:
- (1) One (1) plasma cutting machine, with three torch heads, and a flow rate of 120 cubic feet per hour at 120 psi, with particulate emissions controlled by a dust collector.
 - (2) One (1) flame cutting machine, with three torch heads, and a flow rate of 90 cubic feet per hour at 120 psi.
 - (3) Hand torches, with ten torch heads, and a flow rate of 90 cubic feet per hour at 120 psi.
 - (4) Flux Cored Arc Welding (FCAW) operations, with a total maximum capacity of 7,527 pounds of electrode per hour.
 - (5) Submerged Arc Welding (SAW) operations, with a total maximum capacity of 397 pounds of electrode per hour.
 - (6) Shielded Metal Arc Welding (SMAW) operations, with a total maximum capacity of 910 pounds of electrode per hour.

Note: The combined cutting rate of the plasma cutting machine, flame cutting machine, and hand torches is 120 inches per minute.

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

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

Construction Conditions

General Construction Conditions

D.2.1 Permit No Defense

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

D.2.2 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.

D.2.3 Modification to Construction Conditions [326 IAC 2]

All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

Operation Conditions

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

D.2.4 Particulate [326 IAC 2-8] [326 IAC 2-2]

The electrode and cutting gas input to the welding and cutting stations shall be limited as follows:

- (a) The total equivalent cutting gas input to the cutting operations shall be limited to less than 11,200,000 cubic feet per twelve (12) consecutive month period with compliance determined at the end of each month.
- (b) The PM/PM10 emissions from each type of cutting operation shall not exceed the following:

| Cutting Operation | PM/PM10 Emission Limit (lbs/cubic foot of cutting gas) |
|-----------------------------|---|
| Each Plasma Cutting Machine | 0.00031 |
| Each Flame Cutting Machine | 0.001 |
| Each Hand Torch | 0.001 |

- (c) For the purpose of determining compliance with the limit in Condition D.2.4(a), one cubic foot of the cutting gas input to the plasma cutting operations shall be considered equivalent to 0.31 cubic feet of the equivalent cutting gas. One cubic foot of the cutting gas input to the flame cutting machines or hand torches is equivalent to 1.0 cubic feet of the equivalent cutting gas.
- (d) The total equivalent electrode input for the welding operations shall be limited to less than 7,284,768 pounds of electrode per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (e) The total PM/PM10 emissions from each type of welding operation shall not exceed the following:

| Welding Operations | PM/PM10 Emission Limit (lbs/1,000 pounds of electrode) |
|--------------------|---|
| FCAW Operations | 15.1 |
| SAW Operations | 0.05 |
| SMAW Operations | 9.2 |

- (f) For the purpose of determining compliance with the limit in Condition D.2.4(d), one pound of electrode used for the SAW welding operations shall be considered equivalent to 0.003 pounds of the equivalent electrode. One pound of electrode used for the SMAW welding operations shall be considered equivalent to 0.61 pounds of the equivalent electrode. One pound of electrode used for the FCAW welding operations shall be considered equivalent to 1.0 pound of the equivalent electrode.

Combined with the limits in Condition D.1.7, the PM and PM10 emissions from the entire source are limited to less than 250 and 100 tons per year, respectively, rendering the requirements of 326 IAC 2-2 and 2-7 not applicable.

D.2.5 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the Plasma Cutting Machine shall be determined by the following equation when operating at process weight rates up to sixty thousand (60,000) pounds per hour:

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

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

and $P = \text{process weight rate in tons per hour}$

- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the welding operations shall not exceed the emission limits listed in the table below when operating at the maximum process weight rates shown:

| Unit | Maximum Process Weight Rate (tons/hr) | Particulate Emission Limit (lbs/hr) |
|-----------------|---------------------------------------|-------------------------------------|
| FCAW Operations | 36.3 | 41.6 |
| SMAW Operations | 33.0 | 40.8 |

The pounds per hour limitations above were calculated with the following equation:

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

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

D.2.6 Hazardous Air Pollutants [326 IAC 2-8] [326 IAC 2-4.1]

The electrode input to the welding operations shall be limited as follows:

- (a) The total equivalent electrode input to the welding operations shall be limited to less than 7,284,768 pounds of electrode per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The total manganese emissions from each type of welding operation shall not exceed the following:

| Welding Operations | Manganese Emission Limit (lbs/1,000 pounds of electrode) |
|--------------------|--|
| FCAW Operations | 0.891 |
| SMAW Operations | 0.629 |

- (c) For the purpose of determining compliance with the limit in Condition D.2.6(a), one pound of electrode used for the SMAW welding operations shall be considered equivalent to 0.71 pounds of the equivalent electrode. One pound of electrode used for the FCAW welding operations shall be considered equivalent to 1.0 pound of the equivalent electrode.

Combined with Condition D.1.6 and the HAP emissions from other emission units at the source, the potential to emit of any single HAP from the entire source will be limited to less than 10 tons per year and the potential to emit of a combination of HAPs from the entire source will be limited to less than 25 tons per year. Therefore, 326 IAC 2-7 and 326 IAC 2-4.1 do not apply.

D.2.7 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Compliance Determination Requirements

D.2.8 Dust Collector Operation

In order to comply with Condition D.2.4(b) and D.2.5(a), the dust collector shall be in operation whenever the plasma cutter is in operation.

D.2.9 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

In order to demonstrate compliance with Conditions D.2.4(c) and D.2.5(a), the Permittee shall perform PM and PM10 stack testing for the plasma cutting machine utilizing methods as approved by the Commissioner within 60 days after achieving maximum production rate, but not later than 180 days after initial start-up. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C-Performance Testing. PM-10 includes filterable and condensable PM-10.

Compliance Monitoring Requirements

D.2.10 Visible Emissions Notations

- (a) Daily visible emission notations of the plasma cutting stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.2.11 Parametric Monitoring

The Permittee shall record the pressure drop across the dust collector used in conjunction with the plasma cutting machine, at least once per day when the plasma cutting machine is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the dust collector is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions and Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.2.12 Dust Collector Failure Detection

In the event that dust collector failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit.

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

D.2.13 Record Keeping Requirements

- (a) To document compliance with Conditions D.2.4(a), the Permittee shall maintain monthly records of the total equivalent cutting gas used in the cutting operations.
- (b) To document compliance with Conditions D.2.4(e), the Permittee shall maintain monthly records of the total equivalent electrodes used in the welding operations.
- (c) To document compliance with Condition D.2.10, the Permittee shall maintain records of daily visible emission notations of the plasma cutting stack exhaust.

- (d) To document compliance with Condition D.2.11, the Permittee shall maintain the following:
 - (1) Daily records of the pressure drop during normal operation when venting to the atmosphere.
 - (2) Documentation of the dates vents are redirected.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.14 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.2.4(a), and D.2.4(e) 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 thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.3

FACILITY OPERATION CONDITIONS

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

- (e) Degreasing operations consisting of cold cleaner degreasers without remote solvent reservoirs, constructed in 2006, each having a maximum capacity of 35 gallons, and that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

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

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

Construction Conditions

General Construction Conditions

D.3.1 Permit No Defense

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

D.3.2 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.

D.3.3 Modification to Construction Conditions [326 IAC 2]

All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

Operation Conditions

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

D.3.4 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2, the Permittee shall ensure that the following requirements are met for the cold cleaner degreasers:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operating 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.3.5 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

- (a) Pursuant to 326 IAC 8-3-5(a), the Permittee shall ensure that the following control equipment requirements are met for the cold cleaner degreasers:

- (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°C) (one hundred degrees Fahrenheit (100°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°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°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), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, 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.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Tell City Marine Contractors, LLC
Source Address: 926 S. Boundary Street, Tell City, Indiana 47586
Mailing Address: 4500 Bowling Blvd, Suite 100, Louisville, Kentucky 40207
FESOP No.: 123-23259-00026

**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:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

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

Source Name: Tell City Marine Contractors, LLC
Source Address: 926 S. Boundary Street, Tell City, Indiana 47586
Mailing Address: 4500 Bowling Blvd, Suite 100, Louisville, Kentucky 40207
FESOP No.: 123-23259-00026

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">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16 |
|---|

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

| |
|---|
| Facility/Equipment/Operation: |
| Control Equipment: |
| Permit Condition or Operation Limitation in Permit: |
| Description of the Emergency: |
| Describe the cause of the Emergency: |

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

FESOP Quarterly Report

Source Name: Tell City Marine Contractors, LLC
Source Address: 926 S. Boundary Street, Tell City, Indiana 47586
Mailing Address: 4500 Bowling Blvd, Suite 100, Louisville, Kentucky 40207
FESOP No.: 123-23259-00026
Facility: Paint Booth EU-C
Parameter: Single HAP Input
Limit: Less than 9 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____ QUARTER: _____

| Month | Column 1 | Column 2 | Column 1 + Column 2 |
|---------|------------|--------------------|---------------------|
| | This Month | Previous 11 Months | 12 Month Total |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Tell City Marine Contractors, LLC
Source Address: 926 S. Boundary Street, Tell City, Indiana 47586
Mailing Address: 4500 Bowling Blvd, Suite 100, Louisville, Kentucky 40207
FESOP No.: 123-23259-00026
Facility: Paint Booth EU-C
Parameter: Total HAP Input
Limit: Less than 21.4 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____ QUARTER: _____

| Month | Column 1 | Column 2 | Column 1 + Column 2 |
|---------|------------|--------------------|---------------------|
| | This Month | Previous 11 Months | 12 Month Total |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Tell City Marine Contractors, LLC
Source Address: 926 S. Boundary Street, Tell City, Indiana 47586
Mailing Address: 4500 Bowling Blvd, Suite 100, Louisville, Kentucky 40207
FESOP No.: 123-23259-00026
Facility: Paint Booth EU-C
Parameter: VOC Input
Limit: Less than 68.9 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____ QUARTER: _____

| Month | Column 1 | Column 2 | Column 1 + Column 2 |
|---------|------------|--------------------|---------------------|
| | This Month | Previous 11 Months | 12 Month Total |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Tell City Marine Contractors, LLC
Source Address: 926 S. Boundary Street, Tell City, Indiana 47586
Mailing Address: 4500 Bowling Blvd, Suite 100, Louisville, Kentucky 40207
FESOP No.: 123-23259-00026
Facility: Paint Booth EU-B and EU-C
Parameter: PM and PM10 Emissions
Limit: Total PM and PM10 emissions shall each not exceed 36.6 tons per twelve consecutive month period with compliance determined at the end of each month (as calculated by Condition D.1.11).

YEAR: _____ QUARTER: _____

| Month | Column 1 | Column 2 | Column 1 + Column 2 |
|---------|------------|--------------------|---------------------|
| | This Month | Previous 11 Months | 12 Month Total |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Tell City Marine Contractors, LLC
 Source Address: 926 S. Boundary Street, Tell City, Indiana 47586
 Mailing Address: 4500 Bowling Blvd, Suite 100, Louisville, Kentucky 40207
 FESOP No.: 123-23259-00026
 Facility: Welding Stations
 Parameter: HAP limit - Total Equivalent Electrode Input
 Limit: Less than 7,284,768 pounds of equivalent electrode per twelve (12) consecutive month period with compliance determined at the end of each month.

Note: One pound of electrode used for the SMAW welding operations shall be considered equivalent to 0.71 pounds of the equivalent electrode. One pound of electrode used for the FACW welding operations shall be considered equivalent to 1.0 pounds of the equivalent electrode.

YEAR: _____ QUARTER: _____

| Month | Column 1 | Column 2 | Column 1 + Column 2 |
|---------|------------|--------------------|---------------------|
| | This Month | Previous 11 Months | 12 Month Total |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
 Deviation has been reported on: _____

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Tell City Marine Contractors, LLC
Source Address: 926 S. Boundary Street, Tell City, Indiana 47586
Mailing Address: 4500 Bowling Blvd, Suite 100, Louisville, Kentucky 40207
FESOP No.: 123-23259-00026
Facility: PM/PM10 Limit - Welding Stations
Parameter: Total Equivalent Electrode Input
Limit: Less than 7,284,768 pounds of equivalent electrode per twelve (12) consecutive month period with compliance determined at the end of each month.

Note: One pound of electrode used for the SAW welding operations shall be considered equivalent to 0.003 pounds of the equivalent electrode. One pound of electrode used for the SMAW welding operations shall be considered equivalent to 0.61 pounds of the equivalent electrode. One pound of electrode used for the FACW welding operations shall be considered equivalent to 1.0 pound of the equivalent electrode.

YEAR: _____ QUARTER: _____

| Month | Column 1 | Column 2 | Column 1 + Column 2 |
|---------|------------|--------------------|---------------------|
| | This Month | Previous 11 Months | 12 Month Total |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Tell City Marine Contractors, LLC
Source Address: 926 S. Boundary Street, Tell City, Indiana 47586
Mailing Address: 4500 Bowling Blvd, Suite 100, Louisville, Kentucky 40207
FESOP No.: 123-23259-00026
Facility: Plasma Cutting Machine
Parameter: Total Equivalent Cutting Gas Input
Limit: Less than 11,200,000 cubic feet of equivalent cutting gas per twelve (12) consecutive month period with compliance determined at the end of each month.

Note: One cubic foot of the cutting gas input to the plasma cutting operations shall be considered equivalent to 0.31 cubic feet of the equivalent cutting gas. One cubic foot of the cutting gas input to the flame cutting machines or hand torches is equivalent to 1.0 cubic feet of the equivalent cutting gas.

YEAR: _____ QUARTER: _____

| Month | Column 1 | Column 2 | Column 1 + Column 2 |
|---------|------------|--------------------|---------------------|
| | This Month | Previous 11 Months | 12 Month Total |
| Month 1 | | | |
| Month 2 | | | |
| Month 3 | | | |

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Tell City Marine Contractors, LLC
Source Address: 926 S. Boundary Street, Tell City, Indiana 47586
Mailing Address: 4500 Bowling Blvd, Suite 100, Louisville, Kentucky 40207
FESOP No.: 123-23259-00026

Months: _____ to _____ Year: _____

Page 1 of 2

| | |
|--|--------------------------------------|
| <p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. 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 ΔNo deviations occurred this reporting period@.</p> | |
| <p><input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p> | |
| <p><input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p> | |
| <p>Permit Requirement (specify permit condition #)</p> | |
| <p>Date of Deviation:</p> | <p>Duration of Deviation:</p> |
| <p>Number of Deviations:</p> | |
| <p>Probable Cause of Deviation:</p> | |
| <p>Response Steps Taken:</p> | |
| <p>Permit Requirement (specify permit condition #)</p> | |
| <p>Date of Deviation:</p> | <p>Duration of Deviation:</p> |
| <p>Number of Deviations:</p> | |
| <p>Probable Cause of Deviation:</p> | |
| <p>Response Steps Taken:</p> | |

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

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

Source Background and Description

Source Name: Tell City Marine Contractors, LLC
Source Location: 926 S. Boundary Street, Tell City, Indiana 47586
County: Perry
SIC Code: 3731
Operation Permit No.: F123-23259-00026
Permit Reviewer: ERG/SE

On November 6, 2006, the Office of Air Quality (OAQ) had a notice published in the Perry County News, Tell City, Indiana, stating that Tell City Marine Contractors, LLC (TCMC) had applied for a Federally Enforceable State Operating Permit (FESOP) to operate a ship manufacturing plant. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On December 1, 2006, TCMC submitted comments on the proposed FESOP. The summary of the comments is as follows. New language is shown in bold and deleted language is shown in ~~strikeout~~.

Comment #1:

TCMC commented that operation of the source will be severely restricted by the particulate emission limits proposed for the welding operations pursuant to 326 IAC 6-3 in Condition D.2.5(b) of the draft permit. TCMC stated that Condition D.2.5(b) would restrict FCAW welding operations to approximately 650 pounds of electrode per hour at 100% arc-on time, or less than 10% of the maximum hourly electrode throughput rate for the equipment proposed in the permit application. TCMC also commented that the hourly restriction in Condition D.2.5(b) would not allow the source to use the allowable amount of electrode pursuant to the FESOP limit in Condition D.2.4.

TCMC believes the process material throughput of 32.5 tons of steel per hour was inadvertently omitted from the particulate emission limit calculations pursuant to 326 IAC 6-3. TCMC stated that the total process weight rate for the welding operations, including the weight of the electrode plus the weight of the steel, exceeds 60,000 pounds. Therefore, the following equation should be used to calculate the particulate emission limit pursuant to 326 IAC 6-3:

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

TCMC requested that the equation and particulate emission limits in Condition D.2.5 be revised accordingly.

Response to Comment 1:

The process weight rate of the welding operations should be based on the weight of the electrode and the weight of the parts being welded. The particulate emission limit calculated pursuant to 326 IAC 6-3-2 changes based on the process weight rate of the welding operations. If operating at a process weight rate less than the rates shown in the table below, then the calculated particulate emission limit will also decrease. Condition D.2.5 has been revised as follows:

D.2.5 Particulate [326 IAC 6-3-2]

- ...
- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the welding operations shall not exceed the emission limits listed in the table below **when operating at the maximum process weight rates shown:**

| Unit | Maximum Process Weight Rate (tons/hr) Total Max. Throughput Rate (lbs/hr) | Particulate Emission Limit (lbs/hr) |
|-----------------|--|-------------------------------------|
| FCAW Operations | 7,527 36.3 | 9.96 41.6 |
| SMAW Operations | 910 33.0 | 2.42 40.8 |

The pounds per hour limitations above were calculated with the following equation:

Interpolation of the data for process weight rates ~~up to~~ **in excess of** sixty thousand (60,000) pounds per hour shall be accomplished by use of the following equation:

$$E = 4.10 P^{0.67} - 55.0 P^{0.11} - 40$$

where E = rate of emission in pounds per hour;
 and P = process weight rate in tons per hour

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for A New Source Construction and a Federally Enforceable State Operating Permit

Source Background and Description

| | |
|-----------------------|--|
| Source Name: | Tell City Marine Contractors, LLC |
| Source Location: | 926 S. Boundary Street, Tell City, Indiana 47586 |
| County: | Perry |
| SIC Code: | 3731 |
| Operation Permit No.: | F123-23259-00026 |
| Permit Reviewer: | ERG/SE |

The Office of Air Quality (OAQ) has reviewed a FESOP Operating Permit application from Tell City Marine Contractors, LLC relating to the construction and operation of a ship manufacturing plant.

New Emission Units and Pollution Control Equipment

The source will consist of the following new emission units and pollution control devices:

- (a) One (1) paint booth identified as EU-B, constructed in 2006, with a maximum capacity of 0.10 units per hour (one unit is equivalent to one marine vessel or 325 tons of steel), using airless spray guns to apply surface coating materials to metal marine vessels, with particulate emissions controlled by dry filters, and exhausting to stack S-2.
- (b) One (1) paint booth identified as EU-C, constructed in 2006, with a maximum capacity of 0.50 units per hour (one unit is equivalent to one marine vessel or 325 tons of steel), using airless spray guns to apply surface coating materials to metal marine vessels, with particulate emissions controlled by dry filters, and exhausting to stack S-3.
- (c) Welding and cutting operations identified as EU-D, with a maximum throughput capacity of 32.5 tons of steel per hour, constructed in 2006, including the following:
 - (1) One (1) plasma cutting machine, with three torch heads, and a flow rate of 120 cubic feet per hour at 120 psi, with particulate emissions controlled by a dust collector.
 - (2) One (1) flame cutting machine, with three torch heads, and a flow rate of 90 cubic feet per hour at 120 psi.
 - (3) Hand torches, with ten torch heads, and a flow rate of 90 cubic feet per hour at 120 psi.
 - (4) Flux Cored Arc Welding (FCAW) operations, with a total maximum capacity of 7,527 pounds of electrode per hour.
 - (5) Submerged Arc Welding (SAW) operations, with a total maximum capacity of 397 pounds of electrode per hour.
 - (6) Shielded Metal Arc Welding (SMAW) operations, with a total maximum capacity of 910 pounds of electrode per hour.

Note: The combined cutting rate of the plasma cutting machine, flame cutting machine, and hand torches is 120 inches per minute.

Unpermitted Emission Units and Pollution Control Equipment

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

Insignificant Activities

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

- (a) One (1) shot blast unit identified as EU-A, constructed in 2006, with a maximum throughput capacity of 32.5 tons of steel per hour and 144 pounds of shot per hour, with particulate emissions controlled by a baghouse, and exhausting to stack S-1.
- (b) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour including the following:
 - (1) Four (4) natural gas-fired heaters, constructed in 2006, with a heat input capacity of 200,000 Btu per hour.
 - (2) Six (6) natural gas-fired heaters, constructed in 2006, with a heat input capacity of 600,000 Btu per hour.
 - (3) Twenty (20) natural gas-fired infrared heaters, constructed in 2006, with a heat input capacity of 90,000 Btu per hour.
- (c) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.
- (d) Machining where an aqueous cutting coolant continuously floods the machining interface.
- (e) Degreasing operations consisting of cold cleaner degreasers without remote solvent reservoirs, constructed in 2006, each having a maximum capacity of 35 gallons, and that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3]
- (f) Cleaners and solvents having a vapor pressure equal to or less than 2 kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100° F).
- (g) Solvent recycling systems with batch capacity less than or equal to 100 gallons.
- (h) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (i) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (j) Asbestos abatement projects regulated by 326 IAC 14-10.
- (k) Purging of 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.
- (l) 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.
- (m) On-site fire and emergency response training approved by the department.

- (n) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.

Existing Approvals

This is the first air approval issued to this source.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

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

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

An administratively complete FESOP renewal application for the purposes of this review was received on June 23, 2006. Additional information was received on July 12, 2006, July 27, 2006, and August 15, 2006.

Emission Calculations

See Appendix A of this document for detailed emission calculations (pages 1 through 9).

Potential to Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions 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, the department, or the appropriate local air pollution control agency.”

| Pollutant | Potential to Emit (tons/yr) |
|-----------------|-----------------------------|
| PM | 1,215 |
| PM10 | 1,204 |
| SO ₂ | 0.02 |
| VOC | 1,372 |
| CO | 2.24 |
| NO _x | 2.66 |

| HAPs | Potential to Emit (tons/yr) |
|---------------------|-----------------------------|
| Methyl Ethyl Ketone | 441 |
| Xylene | 171 |
| Ethyl Benzene | 57.1 |
| Manganese | 31.9 |
| Other HAPs | 1.00 |
| Total | 702 |

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM10 and VOC are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 2-7. The source will be issued a FESOP because the source will limit its emissions below the Title V levels.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-

1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. The source will be issued a FESOP because the source will limit its emissions below the Title V levels.

(c) Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Potential to Emit After Issuance

The source has opted to remain a FESOP source. The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this FESOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

| Process/emission unit | Potential To Emit (tons/year) | | | | | | |
|--------------------------------|-------------------------------|-------|-----------------|------|------|-----------------|--------------|
| | PM | PM-10 | SO ₂ | VOC | CO | NO _x | HAPs |
| Shot Blasting | 0.44 | 0.44 | - | - | - | - | 0.01 |
| Surface Coating ⁽¹⁾ | 36.6 | 36.6 | - | 68.9 | - | - | 21.4 |
| Degreasing | - | - | - | 0.48 | - | - | - |
| Combustion | 0.05 | 0.20 | 0.02 | 0.15 | 2.24 | 2.66 | 0.05 |
| Welding ⁽²⁾ | 55.0 | 55.0 | - | - | - | - | 3.40 |
| Cutting ⁽²⁾ | 5.60 | 5.60 | - | - | - | - | - |
| Paved Roads | 6.37 | 1.16 | - | - | - | - | - |
| Total Emissions | 104 | 99.0 | 0.02 | 69.5 | 2.24 | 2.66 | Less than 25 |

- (1) PM and PM10 from the surface coating operations shall be limited to less than 36.6 tons/yr pursuant to 326 IAC 2-8 (FESOP) and 326 IAC 2-2 (PSD). VOC input to the surface coating operation shall be limited to less than 68.9 tons/yr pursuant to 326 IAC 2-8 (FESOP) and 326 IAC 8-1-6 (BACT). HAP emissions from the surface coating operations shall be limited to less than 9 tons/yr for any single HAP and less than 21.4 tons per year for any combination of HAPs pursuant to 326 IAC 2-8 (FESOP).
- (2) PM and PM10 emissions from the welding and cutting operations shall be limited to less than 55.0 and 5.60 tons/yr, respectively, pursuant to 326 IAC 2-8 (FESOP) and 326 IAC 2-2 (PSD). HAP emissions from the welding operations shall be limited to less than 3.40 tons/yr pursuant to 326 IAC 2-8 (FESOP).

County Attainment Status

The source is located in Perry County.

| Pollutant | Status |
|-----------------|------------|
| PM10 | Attainment |
| PM2.5 | Attainment |
| SO ₂ | Attainment |
| NO ₂ | Attainment |
| 8-hour Ozone | Attainment |
| CO | Attainment |
| Lead | Attainment |

Note: On August 7, 2006, a temporary emergency rule took effect redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana. The Indiana Air Pollution Control Board has approved a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 will take effect prior to the expiration of the emergency rule.

- (a) Perry County has been classified as unclassifiable or attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for

PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.

- (b) Volatile organic compounds (VOC) and Nitrogen Oxides 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 NOx emissions are considered when evaluating the rule applicability relating to ozone. Perry County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (c) Perry County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this permit for this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in this permit for this source.
- (c) This source is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart II (National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)), because the HAP emissions for the entire source will be limited to less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year of a combination of HAPs.
- (d) This source is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart MMMM (Surface Coating of Miscellaneous Metal Parts and Products), because the HAP emissions for the entire source will be limited to less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year of a combination of HAPs.
- (e) This source is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart VVVV (National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing), because the HAP emissions for the entire source will be limited to less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year of a combination of HAPs.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

This source will be constructed in Perry County in 2006 and is not one of the twenty-eight listed source categories. Although the source has the potential to emit in excess of 250 tons per year of PM, PM10, and VOC, the source has agreed to limit the PTE of PM10 and VOC to less than one hundred (100) tons per year pursuant to 326 IAC 2-8 (see FESOP limits below). The coatings applied by paint booths EU-B and EU-C shall be limited such that total PM emissions shall not exceed 36.6 tons per twelve consecutive month period with compliance determined at the end of each month. The transfer efficiency of paint booths EU-B and EU-C shall not be less than 75% and the control efficiency of the dry filters shall not be less than 80%. The source shall also limit input to the welding and cutting operations so that PM emissions from the welding and cutting operations are limited to less than 55.0 and 5.60 tons per year, respectively. The PM emission limits for the welding and cutting operations are identical to the PM10 emission limits for these units listed under the discussion of 326 IAC 2-8-4 (FESOP) below. Therefore, the source-wide PM emissions will be less than 250 tons per year, and the requirements of 326 IAC 2-2 are not applicable.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants)

This source will limit emissions of hazardous air pollutants (HAP) to less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year for a combination of HAPs (see the HAP emission limits listed under the discussion of 326 IAC 2-8-4 (FESOP) below); therefore the requirements of 326 IAC 2-4.1 are not applicable.

326 IAC 2-6 (Emission Reporting)

This source is located in Perry County, is not required to operate under a Part 70 permit, and does not emit lead into the ambient air at levels equal to or greater than five (5) tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

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

326 IAC 6-4 (Fugitive Dust Emissions)

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

326 IAC 6-5 (Fugitive Particulate Matter Emissions)

This source will be constructed after December 13, 1985 in Perry County and will have potential fugitive particulate emissions of 12.7 tons per year (as shown on page 8 of Appendix A). Therefore, this source is subject to the requirements of 326 IAC 6-5. The only source of fugitive particulate emissions will be paved roads and parking lots. The source will monitor road and parking lot conditions and sweep paved surfaces or apply a dust suppressant as necessary to control fugitive particulate emissions.

326 IAC 2-8 (FESOP)

(a) Pursuant to 326 IAC 2-8-4, the Permittee shall comply with the following:

- (1) Paint booth EU-B shall not use any coating or solvent which contains VOC.
- (2) The VOC input to paint booth EU-C shall be limited to less than 68.9 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Combined with the VOC emissions from other emission units at the source, the VOC emissions from the entire source are limited to less than 100 tons per twelve (12) consecutive month period; therefore, 326 IAC 2-2 and 2-7 do not apply.

(b) Pursuant to 326 IAC 2-8-4, the PM10 emissions from this source shall be limited as follows:

- (1) Particulate emissions from the surface coating booths shall be limited as follows:
 - (A) The coatings applied by paint booths EU-B and EU-C shall be limited such that the total PM10 emissions shall not exceed 36.6 tons per twelve consecutive month period with compliance determined at the end of each month.

- (B) The transfer efficiency of paint booths EU-B and EU-C shall not be less than 75%.
- (C) The control efficiency of the dry filters shall not be less than 80%.

Compliance with these limits will render the requirements of 326 IAC 2-8 and 2-2 not applicable with respect to PM10.

(2) The electrode and cutting gas input to the welding and cutting stations shall be limited as follows:

- (A) The total equivalent cutting gas input to the cutting operations shall be limited to less than 11,200,000 cubic feet per twelve (12) consecutive month period with compliance determined at the end of each month.
- (B) The PM/PM10 emissions from the plasma cutting machine shall be controlled by a dust collector.
- (C) The total PM/PM10 emissions from each cutting operation shall not exceed the following:

| Cutting Operation | PM/PM10 Emission Limit (lbs/cubic foot of cutting gas) |
|-----------------------------|---|
| Each Plasma Cutting Machine | 0.00031 |
| Each Flame Cutting Machine | 0.001 |
| Each Hand Torch | 0.001 |

- (D) For the purpose of determining compliance with the total cutting gas usage limit above, one cubic foot of the cutting gas input to the plasma cutting operations shall be considered equivalent to 0.31 cubic feet of the equivalent cutting gas. One cubic foot of the cutting gas input to the flame cutting machines or hand torches is equivalent to 1.0 cubic foot of the equivalent cutting gas.
- (E) The total equivalent electrode input for the welding operations shall be limited to less than 7,284,768 pounds of electrode per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (F) The total PM/PM10 emissions from each type of welding operation shall not exceed the following:

| Welding Operations | PM/PM10 Emission Limit (lbs/1,000 pounds of electrode) |
|--------------------|---|
| FCAW Operations | 15.1 |
| SAW Operations | 0.05 |
| SMAW Operations | 9.2 |

- (G) For the purpose of determining compliance with the total equivalent electrode input limit above, one pound of electrode used for the SAW welding operations shall be considered equivalent to 0.003 pounds of the equivalent electrode. One pound of electrode used for the SMAW welding operations shall be considered equivalent to 0.61 pounds of the equivalent electrode. One pound of electrode used for the FACW welding operations shall be considered equivalent to 1.0 pound of the equivalent electrode.

The combined limited potential to emit PM10 from the surface coating booths, welding, and cutting operations is limited to less than 97.2 tons per year; therefore, PM10 emissions from the entire source shall be less than 100 tons per year and 326 IAC 2-7 does not apply.

- (c) Pursuant to 326 IAC 2-8-4, the HAP emissions from this source shall be limited as follows:
- (1) The amount of hazardous air pollutants (HAPs) used in the surface coating operations shall be limited as follows:
 - (A) The input of any single HAP shall be less than 9 tons per twelve (12) consecutive month period with compliance determined at the end of each month; and
 - (B) The input of any combination of HAPs shall be less than 21.4 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (2) The electrode input to the welding stations shall be limited as follows:
 - (A) The total equivalent electrode input to the welding operations shall be limited to less than 7,284,768 pounds of electrode per twelve (12) consecutive month period, with compliance determined at the end of each month.
 - (B) The total manganese emissions from each type of welding operation shall not exceed the following:
- | Welding Operation | PM/PM10 Emission Limit
(lbs/1,000 pounds of electrode) |
|-------------------|---|
| FCAW Operations | 0.891 |
| SMAW Operations | 0.629 |
- (C) For the purpose of determining compliance with the limit above, one pound of electrode used for the SMAW welding operations shall be considered equivalent to 0.71 pounds of the equivalent electrode. One pound of electrode used for the FCAW welding operations shall be considered equivalent to 1.0 pound of the equivalent electrode.

Compliance with these limits will ensure that the potential to emit of any single HAP from the entire source will be less than 10 tons per year and the potential to emit of a combination of HAPs from the entire source will be less than 25 tons per year.

State Rule Applicability – Surface Coating

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-2(d), particulate from the surface coating facilities identified as EU-B and EU-C shall be controlled by dry particulate filters and the Permittee shall operate the control device in accordance with the manufacturer=s specifications.

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

- (a) The surface coating facility identified as EU-C (stack S-3) will be constructed after January 1, 1980, has potential emissions greater than twenty-five (25) tons per year of VOC, is located in Perry County, and is not regulated by any other provisions of 326 IAC 8. Pursuant to 326 IAC 8-1-6 (New facilities; general reduction requirements), the Permittee is required to control VOC emissions from paint booth EU-C (stack S-3) using the Best Available Control Technology (BACT).

Based on the information provided in Appendix B, BACT for paint booth EU-C has been determined to be the following:

- (1) VOC input to the surface coating operation identified as EU-C shall be limited to less than 68.9 tons per twelve (12) consecutive month period.
 - (2) The VOC content for the special marking coatings, which are defined as any coating that is used for safety or identification applications, such as markings on flight decks and ships' numbers, applied at paint booth EU-C shall not exceed 3.50 pounds per gallon. The VOC content for all other coatings applied at paint booth EU-C shall not exceed 2.83 pounds per gallon.
 - (3) Airless spray application method or its equivalent shall be used to apply coatings.
 - (4) Good housekeeping practices to minimize leaks, spills and evaporative losses, which includes, but is not limited, to the following:
 - (A) Sealing lids on all containers not in use or in storage.
 - (B) The purging of guns and lines into containers. The containers will be closed when guns and lines are not being purged.
 - (C) Ensure spilled materials are cleaned up.
 - (D) Performing routine maintenance on spray equipment and pumps to prevent drips and seal leaks.
 - (E) Using aqueous, exempt solvents, or citric cleaners where possible.
- (b) The surface coating facility identified as EU-B does not have potential emissions of twenty-five (25) tons per year or greater of VOC; therefore the requirements of 326 IAC 8-1-6 are not applicable.

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

Pursuant to 8-2-9(b)(5), the requirements of 326 IAC 8-2-9 are not applicable to the surface coating facilities identified as EU-B and EU-C because these facilities are used to apply surface coating to the exterior of marine vessels.

State Rule Applicability – Welding and Cutting

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the Plasma Cutting Machine shall be determined by the following equation when operating at process weight rates up to sixty thousand (60,000) pounds per hour:

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

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

- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the welding operations shall not exceed the emission limits listed in the table below:

| Unit | Total Max. Throughput Rate (lbs/hr) | Particulate Emission Limit (lbs/hr) |
|-------------------------|-------------------------------------|-------------------------------------|
| FCAW Operations | 7,527 | 9.96 |
| SMAW Station Operations | 910 | 2.42 |

The pounds per hour limitations above were calculated with the following equation:

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

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

- (c) Pursuant to 326 IAC 6-3-1(b)(14), the flame cutting machine (Linde Cutting Machine), each hand torch, and the SAW operations are not subject to the requirements of 326 IAC 6-3-2 because they do not have potential particulate emissions in excess of five hundred fifty-one thousandths (0.551) pound per hour each.

State Rule Applicability – Shot Blasting

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(b)(14), the shot blasting operations are not subject to the requirements of 326 IAC 6-3-2 because the potential particulate emissions from shot blasting operations are less than five hundred fifty-one thousandths (0.551) pound per hour.

State Rule Applicability – Natural Gas Combustion

326 IAC 6-2 (Particulate Emissions from Indirect Heating Units)

The natural gas-fired combustion units are not subject to 326 IAC 6-2 because they are not sources of indirect heating.

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(b)(14), the natural gas-fired combustion units are exempt from the requirements of 326 IAC 6-3, because they have potential particulate emissions less than five hundred fifty-one thousandths (0.551) pound per hour.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The natural gas-fired combustion units are not subject to the requirements of 326 IAC 7-1.1, because the potential emissions are less than twenty-five (25) tons per year and ten (10) pounds per hour.

State Rule Applicability – Degreasing

326 IAC 8-3-2 (Cold Cleaner Operation)

The parts washers at this source will be constructed after January 1, 1980 and will be located in Perry County. Pursuant to 326 IAC 8-3-2, 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 operating 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.

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

The parts washers at this source will be constructed after July 1, 1990, will be located in Perry County, and will be cold cleaner degreasers without remote solvent reservoirs.

- (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°C) (one hundred degrees Fahrenheit (100°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°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°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), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, 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.

Testing Requirements

Testing is not required for the welding operations because this permit includes record keeping requirements that will ensure compliance with PM10 and HAP emission limitations.

Testing is not required for VOC or HAP, from the surface coating operations because this permit includes record keeping requirements that will ensure compliance with VOC and HAP, emission limitations.

The Permittee shall conduct performance tests to verify the transfer efficiency and particulate control efficiency for the paint booth EU-B and EU-C. These tests must be repeated once every five years or at least one of the two booths. The Permittee should select a different booth each time the five year test is performed.

Testing is required for PM and PM10 from the plasma cutting machine in order to show compliance with the emission limit established pursuant to 326 IAC 2-8 and 326 IAC 2-2. In order for the source to meet the emission limit, the dust collector must be used at all times the plasma cutting machine is in operation.

Compliance Requirements

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

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also 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.

The compliance monitoring requirements applicable to this source are as follows:

1. The surface coating operations (identified as EU-B and EU-C) have applicable compliance monitoring conditions as specified below:
 - (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the surface coating booth stacks (Stacks S-2 and S-3) while one or more of the booths are in operation. Section C - Response to Excursions and Exceedances shall be followed whenever a condition exists which should result in a response step. Failure to

take response steps in accordance with Section C - Response to Excursions and Exceedances shall be considered a deviation from this permit.

- (b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. Section C - Response to Excursions and Exceedances for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. Section C - Response to Excursions and Exceedances shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances shall be considered a deviation from this permit.

These monitoring requirements are necessary because the dry filters used to control emissions from the surface coating operations must operate properly to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-8 (FESOP).

Conclusion

The construction and operation of this ship manufacturing plant shall be subject to the conditions of the New Source Construction and FESOP 123-23259-00026.

**Appendix A: Emission Calculations
Particulate Emissions from Shot Blast Machine**

Company Name: Tell City Marine Contractors, LLC
Address: 926 S. Boundary Street, Tell City, IN 47586
FESOP: 123-23259-00026
Reviewer: ERG/SE
Date: October 19, 2006

| Emissions Unit | Blast Rate (lbs shot/hr) | Pollutant | Emission Factor (lbs/1000 lbs shot) | Control Efficiency % | PTE Before Controls (tons/yr) | PTE After Controls (tons/yr)*** |
|----------------|--------------------------|-------------|-------------------------------------|----------------------|-------------------------------|---------------------------------|
| EU-A | 144 | PM | 0.690 | 99.5% | 4.35E-01 | 2.18E-03 |
| | | PM10* | 0.690 | 99.5% | 4.35E-01 | 2.18E-03 |
| | | Manganese** | 0.008 | 99.5% | 5.22E-03 | 2.61E-05 |

Emission factor for PM is from AP42, Chapter 13.2.6, Table 13.2.6-1 (9/97)

*Assume PM = PM10

**According to MSDS, the weight percent of Manganese in the shot is 1.2%

***Control is by baghouse and the control efficiency is reported by the source.

Methodology

PTE Before Controls (tons/yr) = Blast Rate (lbs shot/hr) x Emission Factor (lbs/1000 lbs shot) x 8760 hrs/yr x 1 ton/2,000 lbs

PTE After Controls (tons/yr) = PTE Before Controls (tons/yr) x (1-Control Efficiency (%))

**Appendix A: Emission Calculations
VOC and Particulate Emissions from Surface Coating**

Company Name: Tell City Marine Contractors, LLC
Address: 926 S. Boundary Street, Tell City, IN 47586
FESOP: 123-23259-00026
Reviewer: ERG/SE
Date: October 19, 2006

| Material | Density (lbs/gal) | Weight % Volatile (H2O & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Maximum Usage (gal/unit) | Proposed Throughput (units/year) | Hours per Unit | Proposed Months Per Year | Pounds VOC per Gallon of Coating Less Water | Pounds VOC per Gallon of Coating | Unlimited PTE VOC (lbs/hr) | Unlimited PTE VOC (lbs/day) | Unlimited PTE VOC (tons/yr) | Limited VOC Emissions (tons/yr) | Uncontrolled/Unlimited PTE Particulate (tons/yr) | Controlled/Unlimited PTE Particulate (tons/yr) | Transfer Efficiency % | Control Efficiency % |
|--|-------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|--------------------------|----------------------------------|----------------|--------------------------|---|----------------------------------|----------------------------|-----------------------------|-----------------------------|---------------------------------|--|--|-----------------------|----------------------|
| Interplate Zero Zinc Primer (Zinc plus Binder) | 15.3 | 50.3% | 50.3% | 0.0% | 64.0% | 36.0% | 50.0 | 300 | 10.0 | 12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 41.7 | 8.33 | 75% | 80% |
| Intertuf 262 Epoxy (Resin plus Catalyst) | 11.4 | 23.5% | 0.0% | 23.5% | 0.0% | 73.0% | 120 | 300 | 2.00 | 12 | 2.67 | 2.67 | 160 | 3,845 | 702 | 44.7 | 571 | 114 | 75% | 80% |
| International Thinner GTA 415 | 7.25 | 100% | 0.0% | 100% | 0.0% | 0.0% | 14.4 | 300 | 2.00 | 7 | 7.25 | 7.25 | 52.2 | 1,252 | 229 | 9.13 | 0.00 | 0.00 | 75% | 80% |
| Cleanup Solvent (MEK) | 6.71 | 100% | 0.0% | 100% | 0.0% | 0.0% | 15.0 | 300 | 1.00 | 12 | 6.71 | 6.71 | 101 | 2,416 | 441 | 15.1 | 0.00 | 0.00 | 75% | 80% |
| Totals | | | | | | | | | | | | | 313 | 7,513 | 1,371 | 68.9 | 613 | 123 | | |

The densities shown for Interplate Zero Zinc Primer and for Intertuf 262 Epoxy are the weighted averages for these surface coating materials as applied.
The source proposes to limit the number of marine vessels processed per year to 300. The source also proposes to limit the use of the thinner to the months of October through April.
The transfer efficiency shown above is from AP-40 for HVLP spray guns.
*The actual VOC emissions for the Intertuf 262 Epoxy (Resin plus Catalyst) are determined based on 5 months a year at actual throughput and maximum usage and 7 months per year at actual throughput and 88% of the maximum usage.

Methodology

Unlimited PTE VOC (lbs/hr) = Pounds VOC per Gallon of Coating (lbs/gal) * 1/Hours per Unit * Maximum Usage (gal/unit)
Unlimited PTE VOC (lbs/day) = Unlimited PTE VOC (lbs/hr) * 24 hrs/day
Unlimited PTE VOC (tons/yr) = Unlimited PTE VOC (lbs/hr) * 8760 hrs/yr * 1 ton/2000 lbs
Limited VOC Emissions (tons/yr) = Pounds VOC per Gallon of Coating (lbs/gal) * Maximum Usage (gal/unit) * Proposed Throughput (units/yr) * 1 ton/2000 lbs * Proposed Months per Year/12 Months per Year
Uncontrolled/Unlimited PTE Particulate (tons/yr) = Maximum Usage (gal/unit) * Density (lbs/gal) * 1/Hours per Unit * (1- Weight % Volatiles) * (1-Transfer efficiency) * 8760 hrs/yr * 1 ton/2000 lbs
Controlled/Unlimited PTE Particulate (tons/yr) = Uncontrolled/Unlimited PTE Particulate (tons/yr) * (1-Control Efficiency %)

**Appendix A: Emission Calculations
HAP Emissions
From Surface Coating Operations**

Company Name: Tell City Marine Contractors, LLC
Address: 926 S. Boundary Street, Tell City, IN 47586
FESOP: 123-23259-00026
Reviewer: ERG/SE
Date: October 19, 2006

| Material | Density (lbs/gal) | Maximum Usage (gal/unit) | Proposed Throughput (units/yr) | Hours per Unit | Proposed Months per Year | Weight % Ethyl Benzene | Weight % Xylene | Weight % Methyl Ethyl Ketone | PTE Ethyl Benzene (tons/yr) | PTE Xylene (tons/yr) | PTE Methyl Ethyl Ketone (tons/yr) | PTE Total HAPs (tons/yr) |
|--|-------------------|--------------------------|--------------------------------|----------------|--------------------------|------------------------|-----------------|------------------------------|-----------------------------|----------------------|-----------------------------------|--------------------------|
| Interplate Zero Zinc Primer (Zinc plus Binder) | 15.3 | 50.0 | 300 | 10.0 | 12 | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 |
| Intertuf 262 Epoxy (Resin plus Catalyst) | 11.4 | 120 | 300 | 2.00 | 12 | 0.00% | 0.00% | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 |
| International Thinner GTA 415 | 7.25 | 14.4 | 300 | 2.00 | 7 | 25.0% | 75.0% | 0.00% | 57.1 | 171 | 0.00 | 229 |
| Cleanup Solvent (MEK) | 6.71 | 15.0 | 300 | 1.00 | 12 | 0.00% | 0.00% | 100% | 0.00 | 0.00 | 441 | 441 |
| Totals | | | | | | | | | 57.1 | 171 | 441 | 669 |
| Limited PTE | | | | | | | | | <9.00 | <9.00 | <9.00 | <21.4 |

Methodology

PTE HAP (tons/yr) = Density (lbs/gal) * Maximum Usage (gal/unit) * Weight % HAP * 1/Hours per Unit * 8760 hrs/yr * 1 ton/2000 lbs

**Appendix A: Emission Calculations
VOC Emissions
From Degreasing using Parts Washers**

Company Name: Tell City Marine Contractors, LLC
Address: 926 S. Boundary Street, Tell City, IN 47586
FESOP: 123-23259-00026
Reviewer: ERG/SE
Date: October 19, 2006

| Emission Unit | Material | Maximum Material Usage (gals/yr) | Density (lbs/gal) | Weight % VOC | PTE of VOC (tons/yr) |
|---------------|--------------|----------------------------------|-------------------|--------------|----------------------|
| Parts Washers | Zone Defense | 145 | 6.61 | 100% | 0.48 |

The source will use parts washers with capacities of 35 gallons each and filtration systems. The source will use less than 145 gallons of solvent per year for maintenance cleaning of machinery parts.

METHODOLOGY

PTE of VOC (tons/yr) = Maximum Material Usage (gals/yr) x Density (lbs/gal) x Weight % VOC x 1 ton/2000 lbs

**Appendix A: Emission Calculations
Emissions From Natural Gas Combustion**

Company Name: Tell City Marine Contractors, LLC
Address: 926 S. Boundary Street, Tell City, IN 47586
FESOP: 123-23259-00026
Reviewer: ERG/SE
Date: October 19, 2006

| |
|---|
| Total Heat Input Capacity MMBtu/hr 6.20 |
|---|

| |
|--|
| Potential Throughput MMscf/yr 53.2 |
|--|

| Emission Factor (lbs/MMscf) | Pollutant | | | | | | |
|-----------------------------|-----------|-------|-----------------|--------------------|------|------|------|
| | PM* | PM10* | SO ₂ | NO _x ** | VOC | CO | HAPs |
| Potential to Emit (tons/yr) | 0.05 | 0.20 | 0.02 | 2.66 | 0.15 | 2.24 | 0.05 |

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

**Emission factor for NO_x (Uncontrolled) = 100 lb/MMscf.

Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (7/98).

All Emission factors are based on normal firing.

Methodology

Potential Throughput (MMscf/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMscf/1,020 MMBtu

PTE (tons/yr) = Potential Throughput (MMscf/yr) x Emission Factor (lbs/MMscf) x 1 ton/2,000 lbs

**Appendix A: Emission Calculations
Welding**

Company Name: Tell City Marine Contractors, LLC
Address: 926 S. Boundary Street, Tell City, IN 47586
FESOP: 123-23259-00026
Reviewer: ERG/SE
Date: October 19, 2006

| Welding | Total Electrode Consumption (lbs/hr) 100% arc time | Emission Factors (lbs pollutant/1,000 lbs electrode consumed) | | | | Unlimited Potential to Emit (tons/yr) | | | |
|-----------------------------------|--|---|-------|-------|-------|---------------------------------------|-------------|-------------|-------------|
| | | PM/PM10 | Cr | Mn | Ni | PM/PM10 | Cr | Mn | Ni |
| Shielded Metal Arc Welding (SMAW) | 910 | 9.2 | 0.001 | 0.629 | NA | 36.7 | 4.0E-03 | 2.51 | NA |
| Flux Cored Arc Welding (FCAW) | 7,527 | 15.1 | 0.004 | 0.891 | 0.005 | 498 | 0.13 | 29.4 | 1.65E-01 |
| Submerged Arc Welding (SAW) | 397 | 0.05 | NA | NA | NA | 0.09 | NA | NA | NA |
| Totals | | | | | | 535 | 0.14 | 31.9 | 0.16 |

The source reports that SAW welding stations will use an electrode similar to EM12K.
The SMAW welding stations use E6027 wire. Assume E7024.
The FCAW welding stations use E70T wire.
Emission factors are from AP-42, Chapter 12.19, Tables 12.19-1 and 12.19-2 (1/95).

Methodology

Unlimited PTE (tons/yr) = Number of Stations x Total Electrode Consumption (lbs/hour) x Emission Factor (lbs /1,000 lbs electrode) x 8760 hours/year x 1 ton/2,000 lbs

**Appendix A: Emission Calculations
Particulate Emissions from Cutting**

Company Name: Tell City Marine Contractors, LLC
Address: 926 S. Boundary Street, Tell City, IN 47586
FESOP: 123-23259-00026
Reviewer: ERG/SE
Date: October 19, 2006

| Cutting | Number of Torch Heads | Gas Flow Rate (cuft/hr) | *Particulate Emission Factor (g/min) | Calculated Emission Factor (lb/cuft) | Uncontrolled PTE Particulate (tons/yr) | Controlled PTE Particulate (tons/yr) | **Control Efficiency (%) |
|------------------------|-----------------------|-------------------------|--------------------------------------|--------------------------------------|--|--------------------------------------|--------------------------|
| Plasma Cutting Machine | 3 | 120 | 28 | 0.031 | 48.6 | 0.49 | 99.0% |
| Linde Cutting Machine | 3 | 90 | 0.68 | 0.001 | 1.18 | 1.18 | NA |
| Hand Torches | 10 | 90 | 0.68 | 0.001 | 3.94 | 3.94 | NA |
| Totals | | | | | 53.7 | 5.60 | |

*Emission factors are provided by source. The emission factor for plasma cutting is derived from "Emission of Fume, Nitrogen Oxides and Noise in Plasma cutting of Stainless and Mild Steel" from the Swedish Institute of Production Engineering Research, 1994. The source provided an emission factor of 28 g/min for cutting 3/8" thick steel at 30" per minute. The emission factor for torch cutting (Linde Cutting Machine and Hand Torches) is from "Fumes and Gases In the Welding Environment, Part V, Fumes and Gases from Oxygen Cutting" American Welding Society, 1979, pg 137 to 154, Table 5.2.

**The particulate emissions from the plasma cutting machine will be controlled by a down-draft dust collector. Control efficiency is reported by source.

Methodology

Calculated Emission Factor (lb/cuft) = Particulate Emission Factor (g/min) / Gas Flow Rate (cuft/hr) * 60 min/1 hr * 1 lb/454 g

Uncontrolled PTE Particulate (tons/yr) = Number of Torch Heads * Gas Flow Rate (cuft/hr) * Calculated Emission Factor (lb/cuft) * 8760 hrs/yr * 1 ton/2000 lbs

Controlled PTE Particulate (tons/yr) = Uncontrolled PTE Particulate (tons/yr) * (1-Control Efficiency (%))

**Appendix A: Emission Calculations
Particulate Emissions Paved Roads**

Company Name: Tell City Marine Contractors, LLC
Address: 926 S. Boundary Street, Tell City, IN 47586
FESOP: 123-23259-00026
Reviewer: ERG/SE
Date: October 19, 2006

| Vehicle Type | No. of Round Trips per Hour | Vehicle Weight (tons) | Maximum Vehicular Speed (mph) | Round Trip Distance (mi) |
|--------------|-----------------------------|-----------------------|-------------------------------|--------------------------|
| Pickup Truck | 25.0 | 2.00 | 10.0 | 2.00 |
| Forklift | 30.0 | 3.00 | 10.0 | 2.00 |
| Total | 55.0 | 5.00 | | |

Weighted Average Gross Weight: 2.55 tons

Calculations:

$$E = [k(sL/2)^{0.65} * (W/3)^{1.5} - C] * (1 - P/4N)$$

E Emission factor (lbs/vehicle miles traveled(VMT))
k 0.016 particle size multiplier for PM-10
 0.082 particle size multiplier for PM
sL 0.6 road surface silt content (g/m²)
W 2.55 weighted average vehicle weight (tons)
C 0.00047 emission factor for 1980's vehicle fleet exhaust, brake wear, and tire wear
P 120 days with measurable precipitation (greater than 0.01 inch) per year
N 365 number of days per year
VMT= 963,600 (miles/yr)

PM

E = 0.03 lbs/VMT

Potential PM Emissions (tons/yr) = Emission factor (lbs/VMT) * VMT / 2000 (lbs/ton)
Potential PM Emissions (tons/yr) = **12.7 tpy**

PM-10

E = 0.005 lbs/VMT

Potential PM-10 Emissions (tons/yr) = Emission factor (lbs/VMT) * VMT / 2000 (lbs/ton)
Potential PM-10 Emissions (tons/yr) = **2.32 tpy**

The source will sweep road surfaces as necessary to control PM/PM10 emissions. Assume 50% control efficiency.
The emission factor equation is from AP-42, Chapter 13.2.1 (12/03).

**Appendix A: Emission Calculations
Emissions Summary**

Company Name: Tell City Marine Contractors, LLC
Address: 926 S. Boundary Street, Tell City, IN 47586
FESOP: 123-23259-00026
Reviewer: ERG/SE
Date: October 19, 2006

1. Uncontrolled/Unlimited PTE

| | PM | PM10 | SO ₂ | NO _x | VOC | CO | HAPs |
|-----------------|-------------|-------------|-----------------|-----------------|-------------|-------------|------------|
| Shot Blasting | 0.44 | 0.44 | - | - | - | - | 0.01 |
| Surface Coating | 613 | 613 | - | - | 1,371 | - | 669 |
| Degreasing | - | - | - | - | 0.48 | - | - |
| Combustion | 0.05 | 0.20 | 0.02 | 2.66 | 0.15 | 2.24 | 0.05 |
| Welding | 535 | 535 | - | - | - | - | 32.2 |
| Cutting | 53.7 | 53.7 | - | - | - | - | - |
| Paved Roads | 12.7 | 2.32 | - | - | - | - | - |
| Total | 1215 | 1204 | 0.02 | 2.66 | 1372 | 2.24 | 702 |

2. Limited Emissions

| | PM | PM10 | SO ₂ | NO _x | VOC | CO | HAPs |
|-----------------|--------------|-------------|-----------------|-----------------|-------------|-------------|-------------|
| Shot Blasting | 0.44 | 0.44 | - | - | - | - | 0.01 |
| Surface Coating | 36.6 | 36.6 | - | - | 68.9 | - | 21.4 |
| Degreasing | - | - | - | - | 0.48 | - | - |
| Combustion | 0.05 | 0.20 | 0.02 | 2.66 | 0.15 | 2.24 | 0.05 |
| Welding | 55.0 | 55.0 | - | - | - | - | 3.40 |
| Cutting | 5.60 | 5.60 | - | - | - | - | - |
| Paved Roads | 6.37 | 1.16 | - | - | - | - | - |
| Total | 104.1 | 99.0 | 0.02 | 2.66 | 69.5 | 2.24 | 24.9 |

Surface Coating, Welding/Cutting PM limit for PSD
 Surface Coating, Welding/Cutting PM10 limits for FESOP
 Surface Coating VOC limit for FESOP, BACT
 Surface Coating, Welding HAPs limits for FESOP

Appendix B

Best Available Control Technology (BACT) Determinations

Source Background and Description

| | |
|-----------------------|---|
| Source Name: | Tell City Marine Contractors, LLC |
| Source Location: | 926 S. Boundary Street, Tell City, IN 47586 |
| County: | Perry |
| SIC Code: | 3731 |
| Operating Permit No.: | F123-23259-00026 |
| Permit Reviewer: | ERG/SE |

The Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) has performed the following Best Available Control Technology (BACT) review for a New Source Construction and Federally Enforceable State Operating Permit (FESOP) for a new marine vessel manufacturing plant, owned and operated by Tell City Marine Contractors, LLC located at 926 S. Boundary Street, Tell City, Indiana 47586. This permit includes the operation of the following source of VOC emissions with potential emissions in excess of twenty-five (25) tons per year:

- (a) One (1) paint booth identified as EU-C, constructed in 2006, with a maximum capacity of 0.50 units per hour (one unit is equivalent to one marine vessel or 325 tons of steel), with particulate emissions controlled by dry filters, using two (2) airless spray guns to apply surface coating materials to metal marine vessels, and exhausting to stack S-3.

On June 23, 2006, Tell City Marine Contractors, LLC submitted an application to the IDEM, OAQ requesting to construct and operate a marine vessel manufacturing plant that includes shot blasting, welding and cutting, and surface coating. Since the potential to emit VOC for the surface coating booth identified as EU-C will be greater than twenty-five (25) tons per year, the booth will be constructed after January 1, 1980, and is not otherwise regulated by any other provisions of 326 IAC 8, 20-48, or 20-56, this booth will be subject to the requirements of 326 IAC 8-1-6 (New Facilities; General Reduction Requirements). Pursuant to 326 IAC 8-1-6, the Permittee shall reduce VOC emissions using best available control technology (BACT).

IDEM, OAQ conducts BACT analyses in accordance with the "Top-Down" Best Available Control Technology process, which outlines the steps for conducting a top-down BACT analysis. Those steps are listed below:

- (a) Identify all potentially available control options;
- (b) Eliminate technically infeasible control options;
- (c) Rank remaining control technologies by control effectiveness;
- (d) Evaluate the most effective controls and document the results as necessary; and
- (e) Select BACT.

In accordance with EPA guidance, the BACT analysis should take into account the energy, environmental, and economic impacts. Emission reductions may be achieved through the application of available control techniques, changes in process design, and/or operational limitations. These BACT determinations are based on the following information:

- (a) The BACT analysis information submitted by Tell City Marine Contractors, LLC on July 27, 2006 and the additional information submitted on August 1, 2006;
- (b) Information from vendors/suppliers;
- (c) The EPA RACT/BACT/LAER (RBLCL) Clearinghouse;

- (d) State and local air quality permits; and
- (e) The surface coating material content limits contained in NESHAP, Subpart II - National Emission Standards for Hazardous Air Pollutants from Shipbuilding and Ship Repair (Surface Coating).

VOC BACT

The VOC emissions from the spray booth EU-C are generated by the coating process and the associated activities, such as solvents used with cleaning equipment. The objects being painted by spray booth EU-C are large, metal, open hopper, dry cargo marine vessels (barges) with the following dimensions: 200 feet in length, 35 feet in width, and 14 feet in height. The entire assembled vessel is painted.

Step 1 - Identify Control Options

The following available technologies were identified and evaluated to control VOC emissions from the marine vessel painting operations:

- (a) (IDEM, OAQ reviewed the following three control technologies:

- (1) Carbon Absorption:

Carbon absorption is a process by which VOC is retained on a granular carbon surface, which is highly porous and has a very large surface-to-volume ratio. Organic vapors retained on the adsorbent are thereafter desorbed and both the adsorbate and adsorbent are recovered.

Carbon absorption systems operate in two phases: adsorption and desorption. Adsorption is rapid and removes most of the VOC in the stream. Eventually, the adsorbent becomes saturated with the vapors and the system's efficiency drops. Regulatory considerations dictate that the adsorbent be regenerated or replaced soon after efficiency begins to decline. In regenerative systems, the adsorbent is reactivated with steam or hot air and the adsorbate (solvent) is recovered for reuse or disposal. Non-regenerative systems require the removal of the adsorbent and replacement with fresh or previously regenerated carbon.

- (2) Regenerative Thermal Oxidation:

An efficient regenerative thermal oxidizer design must provide adequate residence time for complete combustion, sufficiently high temperatures for VOC destruction, and adequate velocities to ensure proper mixing without quenching combustion. The type of burners and their arrangement affect combustion rates and residence time. The more thorough the contact between the flame and VOC, the shorter the time required for complete combustion. Natural gas is required to ignite the flue gas mixtures and maintain combustion temperatures. Typically, a heat exchanger upstream of the oxidizer uses the heat content of the oxidizer flue gas to preheat the incoming VOC-laden stream to improve the efficiency of the oxidizer.

Of all the VOC control technologies evaluated, thermal oxidization is the one whose VOC reduction efficiency is least affected by waste stream characteristics. A properly designed thermal oxidizer can handle almost all solvent mixtures (except for fluorinated or chlorinated solvents) and concentrations, and therefore meet all regulatory standards. In addition to the energy penalty associated with thermal oxidization, NO_x emissions will be generated from the combustion of natural gas used to fuel the oxidizer. A thermal oxidizer normally provides a VOC destruction efficiency of at least 98%.

(3) Catalytic Oxidation:

In a catalytic oxidizer, a catalyst is used to lower the activation energy for oxidation. When a preheated gas stream is passed through a catalytic oxidizer, the catalyst bed initiates and promotes the oxidation of the VOC without being permanently altered itself. In catalytic oxidization, combustion occurs at significantly lower temperatures than that of direct flame units and can also achieve a destruction efficiency of 98%. However, steps must be taken to ensure complete combustion. The types of catalysts used include platinum, platinum alloys, copper chromate, copper oxide, chromium, manganese, and nickel. These catalysts are deposited in thin layers on an inert substrate, usually a honeycomb shaped ceramic.

- (b) The search for marine vessel surface coating operations in EPA's RACT/BACT/LAER Clearinghouse (RBLC) and Indiana Air Permits identified no facilities with SIC 3731 with a BACT analysis for VOC emissions from surface coating.

Jeffboat, LLC is a Part 70 permitted source (019-18066-00006) in Jeffersonville, Indiana that has operations similar to Tell City Marine Contractors, LLC. Jeffboat, LLC is not subject to BACT pursuant to 326 IAC 8-1-6 because it is regulated by 326 IAC 8-12 (Shipbuilding or Ship Repair Operations in Clark, Floyd, Lake, and Porter Counties). Jeffboat, LLC is also subject to NESHAP, Subpart II (Shipbuilding and Ship Repair Surface Coating). Pursuant to NESHAP, Subpart II, the permit for Jeffboat, LLC limits the VOC content of surface coating materials used.

Newport News Shipbuilding and Dry Dock Company is a Part 70 permitted source (VA-60153) in Newport News, Virginia that also has operations similar to Tell City Marine Contractors, LLC. Newport News Shipbuilding and Dry Dock Company is subject to NESHAP, Subpart II (Shipbuilding and Ship Repair Surface Coating), and has not been required to do a BACT analysis for surface coating. Pursuant to NESHAP, Subpart II, the permit for Newport News Shipbuilding and Dry Dock Company limits the VOC content of surface coating materials used.

| Company | Permit # | Date Issued and State | Type of Operation | VOC Content Limits |
|--|------------------|-----------------------|-------------------------------|--|
| Jeffboat, LLC | T019-18066-00006 | 3/23/2006 (IN) | Marine Vessel Surface Coating | Special marking coatings shall not exceed a VOC content of four and eight-hundredths (4.08) pounds per gallon; Heat resistant and high-gloss coatings shall not exceed a VOC content of three and fifty-hundredths (3.50) pounds per gallon; High-temperature coatings shall not exceed a VOC content of four and seventeen-hundredths (4.17) pounds per gallon; Any other specialty coating shall not exceed a VOC content of two and eighty-three hundredths (2.83) pounds per gallon. |
| Newport News Shipbuilding and Dry Dock Company | VA-60153 | 07/28/2003 (VA) | Marine Vessel Surface Coating | 340 grams VOHAP per liter general use, air flask, inorganic zinc highbuild, military exterior, nonskid, rubber camouflage, specialty interior, and undersea weapons systems coatings; 360 grams VOHAP per liter organic zinc coatings; 400 grams VOHAP per liter anti-foulant coatings; 420 grams VOHAP per liter heat resistant, high-gloss, and nuclear coatings; 490 grams VOHAP per liter special marking coatings; 500 grams VOHAP per liter high temperature coatings; 530 grams VOHAP per liter antenna coatings; 550 grams VOHAP per liter navigational aids and repair and maintenance of thermoplastics coatings; 610 grams VOHAP per liter mist, sealant for thermal spray aluminum, and tack coat coatings; 650 grams VOHAP per liter weldthrough preconditioning primer coatings; and 780 grams VOHAP per liter pretreatment wash primer coatings |

Tell City Marine Contractors, LLC stated that there are approximately 35 large shipyards in the country currently operating under NESHAP, 40 CFR 63, Subpart II, in addition to the two facilities described above.

Step 2 - Eliminate Technically Infeasible Control Options

Based on the results from the RBLC and vendor review, IDEM, OAQ has determined that all of the control options evaluated are technically feasible for this type of operation.

Step 3 - Rank Remaining Control Technologies by Control Effectiveness

The technically feasible approaches for controlling VOC emissions from facilities that have a VOC PTE comparable in magnitude to the surface coating operations at this source are:

| Options for VOC Control | VOC Destruction Efficiency (%) |
|---|---------------------------------------|
| Rotor Concentrator with Regenerative Thermal Oxidizer (RTO) | 98% |
| Catalytic Oxidation | 98% |
| Carbon Absorption | 98% |
| Limited VOC Input, Low VOC Coatings, High Efficiency Spray Technologies, and Good House Keeping Practices | (NA) |

Step 4 - Evaluate the Most Effective Controls and Document Results

IDEM has evaluated an economic analysis of the technically feasible control options submitted by Tell City Marine Contractors, LLC. The analysis estimated the cost of the VOC control equipment, including the initial capital cost of the various components intrinsic to the complete system, and the estimated annual operating costs. The estimated total capital cost was calculated with the use of a factoring method of determining direct and indirect installation costs. The basic equipment costs were obtained from vendor=s quoted prices. Annualized costs were developed based on information from vendors and a literature review. The analysis assumed an interest rate of 7% and an equipment life of 10 years.

The basis of cost effectiveness, used to evaluate the control options, is the ratio of the annualized cost to the amount of VOC (tons) removed per year. Note that the cost effectiveness of each option only accounts for the portion of VOC removed by the add-on controls. The Permittee stated that the labor costs they expect to incur for operator, supervisory, and maintenance labor are higher than the values provided in the EPA Cost Analysis Manual. The labor costs reported by the source are \$30 per hour for operator labor and \$26 per hour for maintenance labor, including employee benefits and overtime. Since the cost of employee benefits is included in the costs associated with company overhead, the base rate reported by the source of \$17.50 per hour for operator and maintenance labor was used in this analysis.

The Permittee also stated that the capture efficiency of paint booth EU-C will probably be less than 100%, depending on the design of the booth. For this cost analysis, the capture efficiency of the booth is assumed to be 100%. If the actual capture efficiency of the booth is lower than 100%, the add-on control devices will be less cost effective than shown in this analysis.

There are relatively negligible costs associated with the limited VOC input, low VOC coatings, high efficiency spray technologies, and good housekeeping practices because they are standard practices in the ship building industry for surface coating operations. A complete breakdown of the costs associated with the Rotary Concentrator with Regenerative Thermal Oxidizer (RTO), the Catalytic Oxidizer, and Carbon Absorption are included in Appendix C. A summary of the cost figures determined in the analysis is provided in the table below:

| Option | Equipment Cost (\$) | Total Operating Cost (\$/yr) | Total Annualized Costs (\$/yr) | Potential VOC removal (ton/yr) | Cost Effectiveness (\$/ton VOC removed) |
|---|---------------------|------------------------------|--------------------------------|--------------------------------|---|
| Rotary Concentrator with Regenerative Thermal Oxidizer (RTO) (98.0% overall reduction*) | \$1,585,000 | \$695,186 | \$1,136,168 | 68 | \$16,827 |
| Catalytic Oxidizer (98.0% overall reduction*) | \$1,262,500 | \$341,106 | \$699,071 | 68 | \$10,353 |
| Carbon Absorption (98.0% overall reduction*) | \$400,000 | \$1,540,328 | \$1,661,038 | 68 | \$24,600 |
| Low VOC Coatings, High Efficiency Spray Technologies, and Good Housekeeping Practices | NA | NA | NA | NA | NA |

*Note: Overall Reduction Efficiency = Control Efficiency x Capture Efficiency (100%)

Step 5 - Select BACT

IDEM, OAQ has determined that the add-on VOC control equipment is not required for this paint booth identified as EU-C based on the following reasons:

- (a) Based on the results of searching the EPA=s RACT/BACT/LAER Clearinghouse (RBLC) database and Indiana Air Permits, no BACT determinations were found for surface coating of marine vessels. However, Tell City Marine Contractors, LLC provided examples of sources with operations similar to EU-C that comply with NESHAP, Subpart II – National Emission Standards for Hazardous Air Pollutants from Shipbuilding and Ship Repair (Surface Coating).
- (b) Subpart II requires shipbuilders to use high solid (low VOC) coatings. For the type of coatings applied by Tell City Marine, Subpart II requires a VOHAP content that does not exceed 2.83 lbs per gallon (340 grams/liter) minus water and exempt compounds for general use coatings and 3.50 pounds per gallon (490 grams/liter) minus water and exempt compounds for special marking coatings. A 'general use coating' is defined as any coating that is not a specialty coating, while a 'special marking coating' is defined as any coating that is used for safety or identification applications, such as markings on flight decks and ships' numbers. As shown in the table on page 3 of this document, these limits are the most stringent requirements currently applied to industries performing the same type of coating operations. For their BACT requirements, Tell City proposes to meet a limit of 3.50 pounds of VOC per gallon of coating applied for special marking coatings (any coating that is used for safety or identification applications, such as markings on flight decks and ships' numbers). All other coatings shall be defined as general use coatings, and Tell City proposes to meet a limit of 2.83 pounds of VOC per gallon of coating applied for general use coatings. These limitations on VOC content are more stringent than those currently imposed on similar operations at Jeff Boat, LLC and Newport News Shipbuilders and Dry Dock Company because they limit VOC rather than only volatile organic HAP. In addition to the VOC content limits, Tell City Marine also proposed good housekeeping practices and a 68.9 ton per year limit on the VOC used in their surface coating operations.
- (c) The installation and operation of a rotary concentrator with a regenerative thermal oxidizer, catalytic oxidizer, or carbon absorption system is considered economically infeasible (\$10,353 per ton of VOC removed for the least expensive option, catalytic oxidizer). IDEM considers this cost to be excessive because IDEM has not identified any other similar source within this industry that has spent this much to control VOC emissions.

Based on the results of this BACT analysis, IDEM, OAQ has determined BACT requirements for paint booth EU-C to be the following:

- (a) The total VOC input to spray booth EU-C, including the use of coatings, thinners, and clean-up solvents, shall be limited to less than 68.9 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (b) The VOC content for the special marking coatings, which are defined as any coating that is used for safety or identification applications, such as markings on flight decks and ships' numbers, applied at this booth shall not exceed 3.50 pounds per gallon. The VOC content for all other coatings applied at this booth shall not exceed 2.83 pounds per gallon.
- (c) Airless spray application method or its equivalent shall be used to apply coatings.
- (d) Good housekeeping practices to minimize leaks, spills and evaporative losses, which includes, but is not limited, to the following:
 - (1) Sealing lids on all containers not in use or in storage.
 - (2) The purging of guns and lines into containers. The containers will be closed when guns and lines are not being purged.
 - (3) Ensure spilled materials are cleaned up.
 - (4) Performing routine maintenance on spray equipment and pumps to prevent drips and seal leaks.
 - (5) Using aqueous, exempt solvents, or citric cleaners where possible.

Appendix C: Cost Analysis for Control Devices

Company Name: Tell City Marine Contractors, LLC
Location: 926 S. Boundary Street, Tell City, IN 47586
FESOP: 123-23259-00026
Reviewer: ERG/SE
Date: September 13, 2006

| | | RTO with Concentrator | Catalytic Oxidizer | Carbon Absorption |
|---|----------------|----------------------------------|---|------------------------------|
| Vender: | | The CMM Group, LLC | Catalytic Products International, VECTOR | TIGG Corporation |
| Design Air Flow Rate (scfm): | | 80,000 | Series 83,000 | 84,000 |
| I. Capital Cost | | | | |
| (formula) | | | | |
| 1. Purchased Equipment: | | | | |
| Basic Equipment & Auxiliaries (A) | | | | |
| Instrument Cost | 0.1 A | \$158,500 | \$126,250 | \$40,000 |
| Taxes | 0.05 A | \$79,250 | \$63,125 | \$20,000 |
| Freight | 0.05 A | \$79,250 | \$63,125 | \$20,000 |
| Total Purchase Cost (B) | | \$1,902,000 | \$1,515,000 | \$480,000 |
| 2. Direct Installation Costs: | | | | |
| Foundations & Supports | 0.08 B | \$152,160 | \$121,200 | \$38,400 |
| Erection & Handling | 0.14 B | \$266,280 | \$212,100 | \$67,200 |
| Electrical | 0.04 B | \$76,080 | \$60,600 | \$19,200 |
| Piping | 0.02 B | \$38,040 | \$30,300 | \$9,600 |
| Insulation | 0.01 B | \$19,020 | \$15,150 | \$4,800 |
| Painting | 0.01 B | \$19,020 | \$15,150 | \$4,800 |
| Site Preparation (As Required) | | \$10,000 | \$50,000 | \$50,000 |
| Facilities and buildings (As required) | | \$25,000 | \$25,000 | \$25,000 |
| Total Direct Installation Cost (C) | | \$605,600 | \$529,500 | \$219,000 |
| Total Direct Capital Cost (TDC) | (B+C) | \$2,507,600 | \$2,044,500 | \$699,000 |
| 3. Indirect Costs: | | | | |
| Engineering | 0.1 B | \$190,200 | \$151,500 | \$48,000 |
| Loss of Production Cost | | \$0 | \$0 | \$0 |
| Construction & Field Expenses | 0.05 B | \$95,100 | \$75,750 | \$24,000 |
| Contractor Fees | 0.1 B | \$190,200 | \$151,500 | \$48,000 |
| Start Up and Performance Tests | 0.03 B | \$57,060 | \$45,450 | \$14,400 |
| Contingencies | 0.03 B | \$57,060 | \$45,450 | \$14,400 |
| Total Indirect Cost (D) | | \$589,620 | \$469,650 | \$148,800 |
| Total Install Capital Cost | (B+C+D) | \$3,097,220 | \$2,514,150 | \$847,800 |
| Capital Recovery Factor (7%, 10 year) | | 0.14238 | 0.14238 | 0.14238 |
| Capital Recovery Cost (E) | | \$440,982 | \$357,965 | \$120,710 |

II. ANNUALIZED COSTS

| | | | | |
|---|------------------|--------------------|------------------|--------------------|
| 1. Direct Operating Costs: | | | | |
| Operating Labor (F) | | \$9,567 | \$9,567 | \$9,567 |
| a. Number of Employees | | 1 | 1 | 1 |
| b. Cost/Employee/Hour*** | | \$17.5 | \$17.5 | \$17.5 |
| c. Operating Hours/Year | | 546.67 | 546.67 | 546.67 |
| Supervisory Labor (F1) | 0.15 F | \$1,435 | \$1,435 | \$1,435 |
| Maintenance Labor (F2) | | \$9,567 | \$9,567 | \$9,567 |
| a. Number of Employees | | 1 | 1 | 1 |
| b. Cost/Employee/Hour*** | | \$17.5 | \$17.5 | \$17.5 |
| c. Operating Hours/Year | | 546.67 | 546.67 | 546.67 |
| Maintenance Material (F3) | 1 F2 | \$9,567 | \$9,567 | \$9,567 |
| Utilities | | | | |
| a. Natural Gas | | \$727,241 | \$127,896 | \$58,079 |
| MMBTU/HR Input | | 5.69 | 1.00 | 0.45 |
| Operating Hours/Year | | 8,760 | 8,760 | 8,760 |
| Cost/MMBTU* | | \$14.60 | \$14.60 | \$14.60 |
| b. Electricity | | \$110,190 | \$117,111 | \$116,121 |
| KW Requirements/Hr | | 1 | 8760 | 1 |
| KWH/YR | | 2,668,046 | 324 | 2,832,228 |
| Cost/KWH** | | \$0.041 | \$0.041 | \$0.041 |
| Water | | \$0 | \$0 | \$0 |
| Air | | \$0 | \$0 | \$0 |
| Replacement Parts | | \$0 | \$2,600 | \$1,284,000 |
| Total Direct Operating Cost (G) | | \$867,566 | \$277,742 | \$1,488,335 |
| 2. Indirect Operating Costs: | | | | |
| Overhead | 0.6 (F+F1+F2+F3) | \$18,081 | \$18,081 | \$18,081 |
| Property Tax, Insurance, and Administrative Costs | 0.04 (B+C+D) | \$123,889 | \$100,566 | \$33,912 |
| Total Indirect Operating Cost (H) | | \$141,970 | \$118,647 | \$51,993 |
| 3. Heat Recovery Credits (I): | | | | |
| | | \$314,350 | \$55,283 | \$0 |
| MMBTU/HR Input | | 5.69 | 1.00 | 0.45 |
| Operating Hours/Year | | 8,760 | 8,760 | 8,760 |
| Unit Heat Efficiency | | 95% | 95% | 0% |
| Heat Exchange Efficiency | | 65% | 65% | 0% |
| Percent Heat Recovery | | 70% | 70% | 0% |
| Cost/MMBTU | | \$14.60 | \$14.60 | \$14.60 |
| Total Annual Operating Cost | (G+H-I) | \$695,186 | \$341,106 | \$1,540,328 |
| Total Annual Cost | (E+G+H-I) | \$1,136,168 | \$699,071 | \$1,661,038 |
| Uncontrolled PTE (tons/yr) | 68.9 | | | |
| Destruction Efficiency | | 98% | 98% | 98% |
| Capture Efficiency | | 100% | 100% | 100% |
| Overall Control Efficiency | | 98.0% | 98.0% | 98.0% |
| Pollution Removed (tons/yr) | | 68 | 68 | 68 |
| Cost Effectiveness | | \$16,827 | \$10,353 | \$24,600 |

*This is the price per MMBtu of natural gas for industrial use that is provided on the Ohio Valley Gas Company website for 2006 for Perry County, Indiana.

**This is the national average price for industrial use in 2004 (for Electricity) from the webpage for Energy Information Administration.

<http://www.eia.doe.gov/>

Mail to: Permit Administration & Development Section
Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

Tell City Marine Contractors, LLC
926 S. Boundary Street
Tell City, Indiana 47586

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 Tell City Marine Contractors, LLC, 926 S. Boundary Street, Tell City, Indiana 47586, completed construction of the ship manufacturing facility on _____ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on June 23, 2006 and as permitted pursuant to New Source Construction and Federally Enforceable State Operating Permit No. 123-23259-00026, Plant ID No. 123-00026 issued on _____.
5. Additional (operations/facilities) were constructed/substituted as described in the attachment to this document and were not made in accordance with the construction permit.

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 _____, 20 _____.

My Commission expires:

Signature _____

Name (typed or printed)