



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: January 2, 2008  
RE: Hoosier Tank & Manufacturing Inc./141-24693-00554  
FROM: Matthew Stuckey, Deputy Branch Chief  
Permits Branch  
Office of Air Quality

### Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, 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, Suite N 501E, 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.dot12/03/07



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100 North Senate Avenue  
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## New Source Construction and Minor Source Operating Permit OFFICE OF AIR QUALITY

**Hoosier Tank and Manufacturing, Inc.  
1710 North Sheridan Street  
South Bend, Indiana 46628**

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

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

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 MSOP under 326 IAC 2-6.1.

Operation Permit No.: M141-24693-00554	
Issued/Original signed by:	Issuance Date: January 2, 2008
Matthew Stuckey, Deputy Branch Chief Permits Branch Office of Air Quality	Expiration Date: January 2, 2013

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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 and A.2 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 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

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The Permittee owns and operates a stationary manufacture of metal pressure tanks.

Source Address:	1710 North Sheridan Street, South Bend, Indiana 46628
Mailing Address:	1710 North Sheridan Street, South Bend, Indiana 46628
General Source Phone Number:	574-232-8368
SIC Code:	3443
County Location:	St. Joseph
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) natural gas-fired industrial boiler, identified as BO1, with a maximum capacity of 0.85 MMBtu/hr, with emissions venting to stack BV01. This unit was constructed in 2004.
- (b) One (1) spray coating booth, identified as SB01, controlled by dry filters with a maximum capacity of twelve (12) metal tanks/hour using 0.15 gallons of coating per tank. The emissions from this spray booth exhaust to stack SBV01. This unit was constructed in 2004.
- (c) Two (2) natural gas-fired curing/drying ovens, identified as OV01 and OV02, each with a maximum capacity of 1.5 MMbtu/hr with emissions venting to stacks OVVO1 through OVVO2. These units were constructed in 2004.
- (d) Two (2) Dip coating tanks, identified as DT01 and DT02, with a maximum capacity of one hundred fifty (150) metal tanks/hour, using 0.04 gallons of coating per tank, with emissions venting to stacks DTV01 and DTV02. These units were constructed in 2004.
- (e) Twenty six (26) MIG welding stations, identified as W1 through W26, with a maximum combined capacity of 55.38 pounds of electrode consumed per hour, with emissions exhausting inside the building. These units were constructed between 2005 and 2006.
- (f) Eight (8) natural gas-fired space heaters identified as SH1 through SH8 with a combined maximum capacity of 2.4 MMBtu/hour. These units were constructed in 2004.
- (g) One (1) natural gas-fired hot water washer, identified as WW01, with a maximum capacity of 1.5 MMbtu/hr with emissions venting to stack OVVO3. This unit was constructed in

2004.

- (h) Fugitive emissions from paved roads and parking lots.

## **SECTION B GENERAL CONDITIONS**

### **B.1 Definitions [326 IAC 2-1.1-1]**

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

### **B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]**

- 
- (a) This permit, M141-24693-00554, 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.3 Term of Conditions [326 IAC 2-1.1-9.5]**

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

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

### **B.4 Enforceability**

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

### **B.5 Severability**

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

### **B.6 Property Rights or Exclusive Privilege**

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

### **B.7 Duty to Provide Information**

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- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. 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.8 Certification

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- (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.9 Annual Notification [326 IAC 2-6.1-5(a)(5)]

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- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:  
  
Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, IN 46204-2251
- (c) The notification 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.

## B.10 Preventive Maintenance Plan [326 IAC 1-6-3]

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- (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  
MC 61-53 IGCN 1003  
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.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to M141-24693-00554 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.12 Termination of Right to Operate [326 IAC 2-6.1-7(a)]**

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least ninety (90) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

**B.13 Permit Renewal [326 IAC 2-6.1-7]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. 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  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
  - (1) Submitted at least ninety (90) days 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 2-6.1 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.14 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]**

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- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

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

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
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 shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

**B.15 Source Modification Requirement**

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

**B.16 Inspection and Entry  
[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]**

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

- (a) Enter upon the Permittee's premises where a permitted 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.17 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 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  
MC 61-53 IGCN 1003  
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 notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

**B.18 Annual Fee Payment [326 IAC 2-1.1-7]**

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- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.
- (b) 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.19 Credible Evidence [326 IAC 1-1-6]**

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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 2-6.1-5(a)(1)]

#### C.1 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

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

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

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

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

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Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on. The plan is included as Attachment A.

**C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]**

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- (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  
MC 61-52 IGCN 1003  
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification 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. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

### **Testing Requirements [326 IAC 2-6.1-5(a)(2)]**

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

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require 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.9 Compliance Requirements [326 IAC 2-1.1-11]**

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The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

## **Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]**

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

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Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

### **C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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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.12 Instrument Specifications [326 IAC 2-1.1-11]**

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

## **Corrective Actions and Response Steps**

### **C.13 Response to Excursions or Exceedances**

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- (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; and/or

- (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
  - (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

**C.14 Actions Related to Noncompliance Demonstrated by a Stack Test**

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- (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 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 2-6.1-5(a)(2)]**

**C.15 Malfunctions Report [326 IAC 1-6-2]**

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Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.16 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (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.17 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (b) 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.
- (c) 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).
- (d) 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.

**SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS**

**Emissions Unit Description [326 IAC 2-6.1-5(a)(1)]:**

- (a) One (1) natural gas fired boiler, with a maximum capacity of 0.85 MMBtu per hour, exhausting at one (1) stack, identified as BV01.

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

**Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]**

**D.1.1 Particulate [326 IAC 6-2-1(d)]**

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Pursuant to 326 IAC 6-2-4(a) (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the 0.85 MMBtu per hour heat input boiler shall be limited to 0.6 pounds per MMBtu heat input.

## SECTION D.2 EMISSIONS UNITS OPERATION CONDITIONS

### Emissions Unit Description [326 IAC 2-6.1-5(a)(1)]:

- (b) One (1) spray coating booth, identified as SB01, controlled by dry filters with a maximum capacity of twelve (12) metal tanks/hour using 0.05 gallons of coating per tank. The emissions from this spray booth exhaust to stack SBV01.
- (c) Two (2) natural gas-fired curing/drying ovens, identified as OV01 and OV02, each with a maximum capacity of 1.5 MMBtu/hr with emissions venting to stacks OVVO1 through OVV02. These units were constructed in 2004.
- (d) Two (2) Dip coating tanks, identified as DT01 and DT02, with a maximum capacity of one hundred fifty (150) metal tanks/hour, using 0.04 gallons of coating per tank, with emissions venting to stacks DTV01 and DTV02.

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

### Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

#### D.2.1 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(d)(2) (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coatings applied in the spray booth (SB01) and in the dip coating operations, (DT01 and DT02) shall be less than three (3.5) pounds of VOCs per gallon of coating less water, as applied for any calendar day.

#### D.2.2 Particulate [326 IAC 6-3-2(d)]

- (a) Particulate from the surface coating in the spray painting operation shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.
- (b) If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:
  - (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
  - (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (c) If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

#### D.2.3 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(f), all solvents sprayed from the application equipment of spray coating booth SB01, during cleanup or color changes shall be directed into containers. Said containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that minimizes evaporation.

**D.2.4 Preventive Maintenance Plan [326 IAC 1-6-3]**

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A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this painting operations and any control device.

**Compliance Determination Requirements**

**D.2.5 Volatile Organic Compounds (VOC)[326 IAC 8-1-2] [326 IAC 8-1-4]**

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Compliance with the VOC content contained in condition D.2.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

**Record Keeping Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]**

**D.2.6 Record Keeping Requirements**

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- (a) To document compliance with Condition D.2.1, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage limit established in condition D.2.1.
- (1) The VOC content of each coating material and solvent used.
  - (2) The amount of coating material and solvent 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 monthly cleanup solvent usage; and
  - (4) The total VOC usage for each month.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

### **SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS**

#### **Emissions Unit Description [326 IAC 2-6.1-5(a)(1)]:**

- (e) Twenty six (26) MIG welding stations, identified as W1 through W26, with a maximum combined capacity of 55.38 pounds of electrode consumed per hour, with emissions exhausting inside the building.
- (f) Eight (8) natural gas-fired space heaters identified as SH1 through SH8 with a combined maximum capacity of 2.4 MMBtu/hour. These units were constructed in 2004.
- (g) One (1) natural gas-fired hot water washer, identified and WW01, with a maximum capacity of 1.5 MMBtu/hr exhausting to stack WW01. This unit was constructed in 2004.
- (h) Fugitive emissions from paved roads and parking lots.

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

#### **Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]**

##### **D.3.1 Particulate [326 IAC 6-3-2]**

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Pursuant to 326 IAC 6-3-2(e)(2) (Particulate Emissions Limitations), the allowable particulate emissions from the welding operation, which has a process weight less than 100 pounds per hour, shall not exceed 0.551 lbs/hour.

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

**MINOR SOURCE OPERATING PERMIT  
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

<b>Company Name:</b>	Hoosier Tank and Manufacturing, Inc.
<b>Address:</b>	1710 North Sheridan Street
<b>City:</b>	South Bend, Indiana 46628
<b>Phone #:</b>	574-232-8368
<b>MSOP #:</b>	M141-24693-00554

I hereby certify that Hoosier Tank and Manufacturing, Inc.  still in operation.  
 no longer in operation.  
I hereby certify that Hoosier Tank and Manufacturing, Inc.  in compliance with the requirements of MSOP M141-24693-00554.  
 not in compliance with the requirements of MSOP M141-24693-00554.

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

<b>Noncompliance:</b>

### MALFUNCTION REPORT

#### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY FAX NUMBER - 317 233-6865

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?\_\_\_\_\_, 25 TONS/YEAR SULFUR DIOXIDE ?\_\_\_\_\_, 25 TONS/YEAR NITROGEN OXIDES?\_\_\_\_\_, 25 TONS/YEAR VOC ?\_\_\_\_\_, 25 TONS/YEAR HYDROGEN SULFIDE ?\_\_\_\_\_, 25 TONS/YEAR TOTAL REDUCED SULFUR ?\_\_\_\_\_, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?\_\_\_\_\_, 25 TONS/YEAR FLUORIDES ?\_\_\_\_\_, 100 TONS/YEAR CARBON MONOXIDE ?\_\_\_\_\_, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?\_\_\_\_\_, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?\_\_\_\_\_, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?\_\_\_\_\_, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?\_\_\_\_\_. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION \_\_\_\_\_.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC \_\_\_\_\_ OR, PERMIT CONDITION # \_\_\_\_\_ AND/OR PERMIT LIMIT OF \_\_\_\_\_

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ?    Y        N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ?    Y        N

COMPANY: \_\_\_\_\_ PHONE NO. (    ) \_\_\_\_\_  
LOCATION: (CITY AND COUNTY) \_\_\_\_\_  
PERMIT NO. \_\_\_\_\_ AFS PLANT ID: \_\_\_\_\_ AFS POINT ID: \_\_\_\_\_ INSP: \_\_\_\_\_  
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: \_\_\_\_\_

DATE/TIME MALFUNCTION STARTED: \_\_\_\_/\_\_\_\_/20\_\_\_\_    \_\_\_\_\_ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: \_\_\_\_\_

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE \_\_\_\_/\_\_\_\_/20\_\_\_\_    \_\_\_\_\_ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: \_\_\_\_\_

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: \_\_\_\_\_

MEASURES TAKEN TO MINIMIZE EMISSIONS: \_\_\_\_\_

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL\* SERVICES: \_\_\_\_\_

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: \_\_\_\_\_

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: \_\_\_\_\_

INTERIM CONTROL MEASURES: (IF APPLICABLE) \_\_\_\_\_

MALFUNCTION REPORTED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

\*SEE PAGE 2

**Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.**

**326 IAC 1-6-1 Applicability of rule**

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

**326 IAC 1-2-39 "Malfunction" definition**

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

**\*Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

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

Technical Support Document (TSD) for a New Source Construction,  
Minor Source Operating Permit (MSOP) and  
Transition from a Registered Source

**Source Background and Description**

Source Name:	Hoosier Tank and Manufacturing, Inc.
Source Location:	1710 North Sheridan Street, South Bend, IN 46628
County:	St. Joseph
SIC Code:	3443
Existing Permit No.:	R141-19854-00554
Issuance date:	September 28, 2004
Operation Permit No.:	M141-24693-00554
Permit Reviewer:	ERG/DG

The Office of Air Quality (OAQ) has reviewed an application from Hoosier Tank and Manufacturing, Inc relating to the manufacture of metal pressure tanks.

**History**

Hoosier Tank and Manufacturing, Inc. (Hoosier Tank) is an existing facility manufacturing metal pressure vessels and was issued a Registration (R141-19854-00554) to construct and operate this source on September 28, 2004. On June 5, 2007, the Office of Air Quality received an application from this facility requesting to transition to a MSOP.

The number of MIG welding stations at this facility listed in Registration (R141-19854-00554), served as a bottleneck to the manufacturing process. The installation of additional MIG welding stations between 2005 and 2006 served to debottleneck the manufacture of metal pressure vessels. As a result, the increased maximum throughput resulted in an increase in VOC PTE from the painting and dip coating processes, thereby making the source subject to 326 IAC 2-6.1 (MSOP).

**Permitted Emission Units and Pollution Control Equipment**

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

- (a) One (1) natural gas-fired industrial boiler, identified as BO1, with a maximum capacity of 0.85 MMBtu/hr, with emissions venting to stack BV01. This unit was constructed in 2004.
- (b) One (1) spray coating booth, identified as SB01, controlled by dry filters with a maximum capacity of twelve (12) metal tanks/hour using 0.15 gallons of coating per tank. The emissions from this spray booth exhaust to stack SBV01. This unit was constructed in 2004.
- (c) Two (2) natural gas-fired curing/drying ovens identified as OV01 and OV02, each with a maximum capacity of 1.5 MMbtu/hr with emissions venting to stacks OVVO1 through OVVO2. These units were constructed in 2004.

- (d) Two (2) Dip coating tanks, identified as DT01 and DT02, with a maximum capacity of one hundred fifty (150) metal tanks/hour, using 0.04 gallons of coating per tank, with emissions venting to stacks DTV01 and DTV02. These units were constructed in 2004.
- (e) One (1) welding area consisting of six (6) MIG welding stations, identified as W1 through W6, with a maximum capacity of 15.9 pounds of electrode consumed per hour, with emissions exhausting inside the building. These units were constructed in 2004.
- (f) Eight (8) natural gas-fired space heaters identified as SH1 through SH8 with a combined maximum capacity of 2.4 MMBtu/hour. These units were constructed in 2004.
- (g) One (1) natural gas-fired hot water washer, identified as WW01, with a maximum capacity of 1.5 MMbtu/hr with emissions venting to stack OVVO3. This unit was constructed in 2004.
- (h) Fugitive emissions from paved roads and parking lots.

### Unpermitted Emissions Units

Twenty (20) MIG welding stations, identified as W7 through W26, having a maximum combined capacity of 39.48 pounds of electrode consumed per hour, with emissions exhausting inside the building. These units were constructed between 2005 and 2006.

[Note: These additional welding stations also debottlenecked the existing surface coating operations resulting in an increase in VOC emissions of 60.4 tons per year.]

### New Emissions Units

There are no new emissions units proposed for this source during this review.

### Existing Approvals

The source has been operating under the following previous approval:

R141-19854-00554 issued on September 28, 2004

All conditions from the previous approval were incorporated into this permit except the following:

1. Condition 326 IAC 5-1 (Opacity Limitations): Opacity limited to an average of 40% for any one six minute period.

Reason not incorporated:

This source is located in the portion of St. Joseph county that is north of Kern Road and east of Pine Road . Therefore, this source is subject to the provisions in 326 IAC 5-1-2(2)(A) and (C), which limits the average opacity to thirty percent (30%), rather than the forty percent (40%) Included in the previous approval. The following condition has been included in this MSOP:

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

- (a) Opacity shall not exceed an average of thirty percent (30%) 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.

- 2. Condition 326 IAC 6-3 (Particulate Emissions Limitations for Manufacturing Processes): The particulate emissions from the spray booth was limited to the pound per hour emission rate calculated using the following equation:

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

Reason not incorporated:

This emissions limit is no longer applicable to the spray booth because 326 IAC 6-3-1 was revised in 2002 to make the particulate emission rate not applicable to spray paint booths and fiberglass facilities. Therefore, this process is now subject to 326 IAC 6-3-2(d), which requires dry filters, or other controls be used at all times. See the State Rule Applicability-Spray Booth for additional information.

- 3. Condition 326 IAC 6-3-1(b)(9) (Particulate Emissions Limitations for Manufacturing Processes) The particulate limitations for welding processes was not applicable because the source did not exceed 625 pounds per day of wire or electrode consumed.

Reason not incorporated:

The source now uses greater than 625 pounds of rod or wire per day. Therefore, the welding operations at this source are subject to 326 IAC 6-3-2(e)(2) (Particulate Emissions Limitations). The allowable particulate for processes with a process weight rate of less than 100 pounds per hour shall not exceed 0.551 lbs/hour. This process is able to comply with particulate emissions limitations.

**Enforcement Issue**

- (a) IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit.
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction and operating permit rules.

**Stack Summary**

Stack ID	Operation	Flow Rate (acfm)	Temperature (°F)
DTV01	Dip Coating Tank 1	NA	NA
DTV02	Dip coating tank 2	NA	NA
OVV01	Curing and drying oven 1	NA	NA
OVV02	Curing and drying oven 2	NA	NA
OVV03	Hot water washer 01	NA	NA
SBV01	Spray Booth	NA	NA
BV01	Boiler	NA	NA

NA = Data not Available

## Recommendation

The staff recommends to the Commissioner that the operation 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 application for the purposes of this review was received on June 5, 2007 with additional information received on October 12, 2007.

## Emission Calculations

See Appendix A of this document for detailed emission calculations pages 1 through 5.

## Potential to Emit of the Source Before Controls

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	13.0
PM-10	13.1
SO <sub>2</sub>	0.02
VOC	69.8*
CO	2.85
NO <sub>x</sub>	3.4

HAPs	Potential to Emit (tons/yr)
Formaldehyde	3.00E-03
Hexane	0.06
Manganese	0.12
All other HAPs	2.87E-04
Total combined HAPs	0.19

\* Based on the TSD for Registration R141-19854-00554 issued on September 28, 2004, the VOC PTE of the entire source was previously less than 10 tons per year.

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) VOC are less than 100 tons per year but greater than 25 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. An MSOP will be issued.
- (b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM10, SO<sub>2</sub>, CO and NO<sub>x</sub> are less than 100 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7 (Part 70).
- (c) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-1.1-1(16)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7(Part 70).

## County Attainment Status

The source is located in St. Joseph County.

Pollutant	Status
PM10	attainment
PM2.5	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
8-hour Ozone	attainment
CO	attainment
Lead	attainment

Note 1: Effective October 25, 2006, 326 IAC 1-4-1 has been revised revoking the one hour ozone standard in Indiana.

Note 2: On November 8, 2007 the Indiana Air Pollution Control Board finalized a temporary emergency rule to redesignate Clark, Floyd, Elkhart, St. Joseph, LaPorte, Boone, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, and Shelby Counties as attainment for the 8-hour ozone standard.

- (a) St. Joseph 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 PM2.5 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 (NOx) 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 emissions and NOx emissions are considered when evaluating the rule applicability relating to ozone.
- On November 8, 2007, a temporary emergency rule took effect redesignating St. Joseph County to attainment for the eight-hour ozone standard. The Indiana Air Pollution Control Board has begun the process for a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 should take effect prior to the expiration of the emergency rule. Therefore, VOC emissions 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) St. Joseph County has been classified as attainment or unclassifiable in Indiana for PM10, SO<sub>2</sub>, CO, and lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section.
- (d) Fugitive Emissions  
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 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.

## Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	13.0
PM-10	13.1
SO <sub>2</sub>	0.02
VOC	69.8
CO	2.85
NO <sub>x</sub>	3.4
Single HAP	0.12
Total HAPs	0.19

This existing source is not a major stationary source under 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories.

### Part 70 Permit Determination

#### 326 IAC 2-7 (Part 70 Permit Program)

This existing source, including the emissions from this permit M141-24693-00554, is still not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons per year.

This status is based on all the air approvals issued to the source.

### Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this permit.

Although constructed after June 9, 1989, the requirement for New Source Performance Standards (NSPS) 40 CFR Part 60 Subpart Dc—Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (326 IAC 12) are not included in this permit for the boiler, identified as BO1, because this boiler has a heat input capacity of less than 10 MMBtu/hour.

- (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.
  - (1) 40 CFR 63, Subpart M, National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts (326 IAC 20-80) are not included in this permit because this source is not located at a source that is major for HAP.
  - (2) 40 CFR 63, Subpart T, National Emissions Standards for Halogenated Solvent Cleaning (326 IAC 20-6), are not included in this permit because no halogenated solvents are used in the hot water washer, identified as WW01.

### State Rule Applicability – Entire Source

#### 326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This existing source is not a major PSD stationary source because no regulated pollutant is emitted at a rate greater than or equal to 250 tons per year and it is not one of the twenty-eight (28) listed source categories.

#### 326 IAC 5-1 (Opacity Limitations)

This source is located in the portion of St. Joseph county that is north of Kern Road and east of Pine Road. Therefore, this source is subject to the provisions in 326 IAC 5-1-2(2)(A) and (C). Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in the permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) 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)

Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions) fugitive dust emissions shall not escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

#### 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations) does not apply to this source because the source does not have potential fugitive particulate matter emissions of twenty-five (25) tons per year.

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

Although constructed after July 27, 1997, this source does not have the potential to emit 10 tons per year of a single HAP or 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

### **State Rule Applicability – Boiler**

#### 326 6-2-4 (Particulate Matter Limitations for Sources of Indirect Heating)

Pursuant to 326 6-2-4 (Particulate Matter Limitations for Sources of Indirect Heating), particulate emissions from the natural gas-fired industrial boiler, identified as BO1, shall not exceed the allowable rate of 0.6 lb PM/MMBtu for sources with Q less than 10 MMBtu/hr. Based on AP-42 emissions factors, the particulate emissions from the boiler are estimated to be 0.002 lb/MMBtu. Therefore, this boiler is able to comply with this limit.

#### 326 IAC 7-1.1-1 (Sulfur Dioxide Emissions Limitations)

326 IAC 7-1.1-1 (Sulfur Dioxide Emissions Limitations) does not apply to the boiler because the boiler does not have the potential to emit twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide

### **State Rule Applicability – Curing and Drying Ovens**

#### 326 6-2-4 (Particulate Matter Limitations for Sources of Indirect Heating)

326 6-2-4 (Particulate Matter Limitations for Sources of Indirect Heating), the two (2) curing and drying ovens, identified as OV01 through OV02, are not subject to 362 IAC 6-2-4 because they are not indirect heating units.

#### 326 IAC 6-3 (Particulate Emissions Limitations)

326 IAC 6-3 (Particulate Emissions Limitations) does not apply to the curing and drying ovens because each of these emissions units has potential to emit (PTE) PM emissions less than five hundred fifty-one thousandths (0.551) pound per hour.

326 IAC 7-1.1-1 (Sulfur Dioxide Emissions Limitations)

326 IAC 7-1.1-1 (Sulfur Dioxide Emissions Limitations) does not apply to the curing and drying ovens because these units do not have the potential to emit twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide.

**State Rule Applicability – Spray Booth**

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

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), this booth is subject to 326 IAC 8-2-9(a)(5) because this source has a standard industrial code (SIC) of #34; was constructed after July 1, 1990; and has the potential to emit (PTE) greater than 15 lbs/day of VOC.

Therefore, pursuant to 326 IAC 8-2-9(d)(2) the volatile organic compound (VOC) content of the coating used in the air dried or forced warm air dried surface coating spray booth at temperatures up to ninety (90) degrees Celsius (one hundred ninety-four (194) degrees Fahrenheit) shall be less than 3.5 pounds of VOCs per gallon of coating less water.

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

Based on the MSDS submitted by the source, the spray booth is able to comply with this requirement using compliant coatings.

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

Pursuant to 326 IAC 6-3-2(d), particulate from the airless surface coating spray booth shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:

Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

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

Although constructed after January 1, 1980, the spray booth is not subject to the provisions of 326 IAC 8-1-6 (BACT) because the spray booth is subject to 326 8-2-9 (Miscellaneous Metal Coatings). Facilities subject to another Article 8 rule are exempt from the provisions of 326 IAC 8-1-6.

**State Rule Applicability – Dip Tanks**

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

The requirements of 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) do not apply to the dip coating tanks because pursuant to 326 IAC 6-3-1(b)(5), dip coaters are exempt from the requirements of 326 IAC 6-3-2.

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

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), these dip tanks are subject to 326 IAC 8-2-9(a)(5) because this source has a standard industrial code (SIC) of #34; was constructed after July 1, 1990; and has the potential to emit (PTE) greater than 15 lbs/day of VOC. Therefore, the volatile organic compound (VOC) content of the coating used in the dip coating tanks shall be less than 3.0 pounds of VOCs per gallon of coating less water. (326 IAC 8-2-9(d)(4))

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

Based on the MSDS submitted by the source, the dip coating tanks are able to comply with this requirement using compliant coatings.

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

Although constructed after January 1, 1980, the dip tanks are not subject to the provisions of 326 IAC 8-1-6 (BACT) because they are subject to 326 8-2-9 (Miscellaneous Metal Coatings). Facilities subject to another Article 8 rule are exempt from the provisions of 326 IAC 8-1-6.

### **State Rule Applicability – Welding**

#### 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

The welding operations at this source are subject to 326 IAC 6-3 because they use greater than 625 pounds of rod or wire per day. Pursuant to 326 IAC 6-3-2(e)(2) (Particulate Emissions Limitations) the allowable particulate for processes with a process weight rate of less than 100 pounds per hour shall not exceed 0.551 lbs/hour. This process is able to comply with particulate emissions limitations.

### **State Rule Applicability- Space Heating Units**

#### 326 6-2-4 (Particulate Matter Limitations for Sources of Indirect Heating)

326 6-2-4 (Particulate Matter Limitations for Sources of Indirect Heating) particulate emissions from the eight (8) natural gas-fired space heaters, identified as SH1 through SH8, are not subject to 362 IAC 6-2-4 because they are not indirect heating units.

#### 326 IAC 6-3 (Particulate Emissions Limitations)

326 IAC 6-3 (Particulate Emissions Limitations) does not apply to the space heating units because their potential to emit (PTE) PM emissions is less than five hundred fifty-one thousandths (0.551) pound per hour.

#### 326 IAC 7-1.1-1 (Sulfur Dioxide Emissions Limitations)

326 IAC 7-1.1-1 (Sulfur Dioxide Emissions Limitations) does not apply because the natural gas-fired space heaters do not have the potential to emit twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide.

### **State Rule Applicability - Hot water Washer**

#### 326 6-2-4 (Particulate Matter Limitations for Sources of Indirect Heating)

326 6-2-4 (Particulate Matter Limitations for Sources of Indirect Heating) particulate emissions from the one (1) natural gas-fired hot water washer, identified as WW01, is not subject to 362 IAC 6-2-4 because it is not an indirect heating unit.

**326 IAC 8-3 (Organic Solvent Degreasing Operations)**

326 IAC 8-3 (Organic Solvent Degreasing Operations) does not apply because the natural gas-fired hot water washer, identified as WW01, does not use any VOC in the hot water washing process.

**Conclusion**

The construction and operation of this metal pressure tank manufacturing facility shall be subject to the conditions of the New Source Construction and Minor Source Operating Permit 141-24693-00554.

**Appendix A: Emission Calculations****Summary of Potential to Emit**

**Company Name: Hoosier Tank and Manufacturing, Inc.**  
**Address: 1710 Sheridan Street, South Bend, IN 46628**  
**MSOP: 141-24693-00554**  
**Reviewer: ERG/DG**  
**Date: October 10, 2007**

	PM	PM10	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs
Paint Booth	11.48	11.48	0	0	12.8	0	0
Dip Tank	0	0	0	0	57	0	0
Welding Area	1.33	1.33	0	0	0	0	0.12
Paved Roads (Fugitives)	0.13	0.03	0	0	0	0	0
Natural Gas Fired Units	0.06	0.25	0.02	3.40	0	2.85	6.40E-02
<b>Total PTE (tons/yr)</b>	<b>13.0</b>	<b>13.1</b>	<b>0.02</b>	<b>3.40</b>	<b>69.8</b>	<b>2.85</b>	<b>0.19</b>

**Appendix A: Emission Calculations  
VOC and PM/PM10 from Paint Booth and Dip Coating**

**Company Name: Hoosier Tank and Manufacturing Inc.  
Address: 1710 Sheridan Street, South Bend, IN 46628  
MSOP: 141-24693-00554  
Reviewer: ERG/DG  
Date: October 10, 2007**

Emissions Units and coating	Maximum Throughput (units/hr)	*Density of Coating (lbs/gal)	Weight % Solids	Weight % water	Weight % organics	Maximum Usage (gal/unit)	VOC content (lbs/gal) less water	VOC Content (lbs/gal)	Transfer Efficiency (%)	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10 (tons/yr)
Paint Booth SB01 N-5570N Primer	12	11.7	49.8%	36.4%	13.9%	0.15	1.62	1.63	75.0%	2.93	70.3	12.8	11.48
Dip Coating DT01 and DT02 N-8377 Baking Enamel	150	9.68	36.5%	35.6%	19.9%	0.045	2.8	1.93	100%	13.0	312	57.0	0.00
<b>Uncontrolled Emissions Totals</b>										<b>15.9</b>	<b>382</b>	<b>69.8</b>	<b>11.48</b>

PM Control Efficiency 79.1% therefore PM after controls	<b>2.4108</b>
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The coatings used in the units above do not contain any HAP, based on the MSDS provided by the source.

### Methodology

VOC Content (lbs/gal) = Density (lbs/gal)\*Weight % organics

PTE of VOC (lbs/hr) = VOC Content (lbs/gal)\*Max. Throughput (unit/hr)\*Max. Usage (gal/unit)

PTE of VOC (lbs/day) = VOC Content (lbs/gal)\*Max. Throughput (unit/hr)\*Max. Usage (gal/unit)\*24(hrs/day)

PTE of VOC (tons/yr) = VOC Content (lbs/gal)\*Max. Throughput (unit/hr)\*Max. Usage (gal/unit)\*8760 (hrs/year)\*(1ton/2000lbs)

PTE of PM/PM10 (tons/year)=

Density of Coating (lbs/gal)\*Weight % of Solids\*Maximum Throughput (units/hour)\*Maximum Usage (gal/unit)\*(1-Transfer efficiency)\*(8760 hrs/year)\*(1ton/2000lbs)

**Appendix A: Emission Calculations**  
**Emissions from Metal Inert Gas Welding Stations**

**Company Name: Hoosier Tank and Manufacturing, Inc.**  
**Address: 1710 Sheridan Street, South Bend, IN 46628**  
**MSOP: 141-24693-00554**  
**Reviewer: ERG/DG**  
**Date: October 10, 2007**

	Number of stations	Electrode or carbon steel consumption per station (lbs/hr)	Emission Factors in Lb of pollutant/lb of electrode or carbon steel used				Emmissions (lbs/hr)			
			PM/PM10	Mn	Ni	Cr	PM/PM10	Mn	Ni	CR
Welding Stations	26	2.13	0.0055	0.0005	0	0	0.305	0.028	0	0

**Emissions**

PTE (lbs/day)	<b>7.31</b>	<b>0.66</b>	0	0
PTE (tons/yr)	<b>1.33</b>	<b>0.12</b>	0	0

PTE of (lb/hr) = Number of stations \*Emissions Factor (lbs pollutant/lb electrode) \*Consumption rate (lbs/hr)

PTE (lbs/day) = Number of stations \*Emissions Factor (lbs pollutant/lb electrode) \*Consumption rate (lbs/hr) \*24hrs/day

PTE (tons/yr) = Number of stations \*Emissions Factor (lbs pollutant/lb electrode) \*Consumption rate (lbs/hr)\*8760 hrs/yr\*1ton/2000lbs

**Appendix A: Emission Calculations  
Natural Gas Fired Combustion  
Criteria and HAP Potential to Emit**

**Company Name: Hoosier Tank and Manufacturing, Inc.**  
**Address: 1710 Sheridan Street, South Bend, IN 46628**  
**MSOP: 141-24693-00554**  
**Reviewer: ERG/DG**  
**Date: October 10, 2007**

Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)					
7.75 (# units combined)	66.6					
	PM	*PM10	SO2	**NOx	VOC	CO
Emission Factor (lbs/MMCF)	1.9	7.6	0.6	100	5.5	84
Potential to Emit (tons/yr)	<b>0.06</b>	<b>0.25</b>	<b>0.02</b>	<b>3.33</b>	<b>0.19</b>	<b>2.85</b>
Potential to Emit (lbs/MMBtu)	<b>0.01</b>	<b>0.06</b>				

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

\*\*Emission factor for NOx: Uncontrolled = 100 lbs/MMCF

	Lead	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Chromium	Cadmium	Manganese	Nickel	Total HAPs
Emissions Factor (lbs/MMCF)	0.0005	0.002	0.0001	0.075	1.8	0.0014	0.0011	0.00038	0.0021	
Potential to Emit (tons/yr)	1.66E-05	6.66E-05	3.33E-06	2.50E-03	5.99E-02	4.66E-05	3.66E-05	1.26E-05	6.99E-05	<b>6.27E-02</b>

Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1 and 1.4-2, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (AP-42 Supplement D 07/98)

**Methodology**

Potential Throughput (MMCF/yr) = Heat input Capacity (MMBtu/hr)\*8,760 hrs/yr\*1 MMCF/1,020 MMBtu  
 Potential to Emit (tons/yr) = Potential Throughput (MMCF/yr) \* Emission Factor (lbs/MMCF)\* 1 ton/2000lbs  
 Potential to emit (lbs/MMBtu) = Emission factor (lbs/MMcf)\*(1MMcf/1020MMBtu)\*heat input capacity

**Appendix A: Emission Calculations  
Fugitives from Paved Roads**

**Company Name: Hoosier Tank and Manufacturing, Inc.**  
**Address: 1710 Sheridan Street, South Bend, IN 46628**  
**MSOP: 141-24693-00554**  
**Reviewer: ERG/DG**  
**Date: October 10, 2007**

**1. Paved Road Emission Factors: AP-42**

According to AP-42, Chapter 13.2.1 - Paved Roads (11/06), the PM/PM10 emission factors for paved roads can be estimated from the following equation:

$$E = (k \times (sL/2)^a \times (w/3)^b - C) \times (1 - p/(4 \times 365))$$

where:

E = emission factor (lb/vehicle mile traveled)  
sL = road surface silt loading (g/m<sup>2</sup>) = 0.6 (g/m<sup>2</sup>) (AP-42, Table 13.2.1-3)  
w = mean vehicle weight (tons) = 15.0 tons  
k = empirical constant = 0.082 for PM and 0.016 for PM10  
a = empirical constant = 0.65  
b = empirical constant = 1.5  
C = emission factor for exhaust, brake and tire wear 0.00047 for PM and PM10  
p = number of days per year with 0.01 inches precipitation 120

PM Emission Factor =  $(0.082 \times (0.6/2)^{0.65} \times (15/3)^{1.5} - 0.00047) \times (1 - 120/1460) =$  **0.38 lbs/mile**  
PM10 Emission Factor =  $(0.016 \times (0.6/2)^{0.65} \times (15/3)^{1.5} - 0.00047) \times (1 - 120/1460) =$  **0.07 lbs/mile**

**2. Potential to Emit (PTE) of PM/PM10 Before Control from Paved Roads:**

Vehicle Type	*Weight of Vehicles (tons)	Trip Number (trips/yr)	* Round Trip Distance (mile/trip)	Vehicle Mile Traveled (VMT) (miles/yr)	Traffic Component (%)	Component Vehicle Weight (tons)	PTE of PM (tons/yr)	PTE of PM10 (tons/yr)
	(tons)	(Trips/yr)	(miles/trip)	(miles/yr)	(%)	(tons)	(tons/yr)	(tons/yr)
Triaxial Truck	15	17,520	0.04	700.8	100%	15	0.13	0.03

\* This information is provided by the source.

Vehicle Mile Traveled (miles/yr) = Trip Number (trips/yr) x Round-Trip Distance (miles/trip)

PTE of PM/PM10 before Control (tons/yr) = VMT (miles/yr) x PM/PM10 Emission Factors (lbs/mile) x 1 ton/2000 lbs