



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Michael R. Pence*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant

DATE: January 25, 2013

RE: Hoosier Tank & Manufacturing, Inc / 141-32201-00554

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

## Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, 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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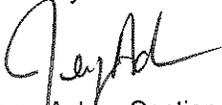
## Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

**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.: M141-32201-00554	
Issued by:  Jenny Acker, Section Chief Permits Branch Office of Air Quality	Issuance Date: January 25, 2013  Expiration Date: January 25, 2023

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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 metal pressure tanks manufacturing source.

Source Address:	1710 North Sheridan Street, South Bend, Indiana 46628
General Source Phone Number:	(574) 232-8368
SIC Code:	3443 (Fabricated Plate Work)
County Location:	St. Joseph
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset 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) 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.
- (b) One (1) powder coating system, identified as PC01, constructed in 2010, with a maximum coating usage of 15.98 lb/hour, using a powder coating reclamation system for product recovery, and exhausting within an enclosed environmentally controlled room within the facility.  
  
Note: IDEM has determined the powder coating reclamation system as integral to the powder coating process, therefore the permit level determination is based upon the potential to emit after control.
- (c) Two (2) natural gas-fired air heating systems, identified as AM01 and AM02, with a combined maximum capacity of 13.60 MMBtu/hour. These units were constructed in 2010.
- (d) 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.
- (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, M141-32201-00554, is issued for a fixed term of ten (10) 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. 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 Annual Notification [326 IAC 2-6.1-5(a)(5)]**

---

- (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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 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.9 Preventive Maintenance Plan [326 IAC 1-6-3]**

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- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.
- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

**B.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to M141-32201-00554 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.11 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 one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

**B.12 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 an affirmation that the statements in the application are true and complete 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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
  - (1) Submitted at least one hundred twenty (120) 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, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

**B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]**

---

- (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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

**B.14 Source Modification Requirement**

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

**B.15 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.16 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  
Permit Administration and Support Section, 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 an affirmation that the statements in the application are true and complete 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.17 Annual Fee Payment [326 IAC 2-1.1-7]**

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- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (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.18 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 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

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

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

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

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

- (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 Licensed 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 Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

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

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

no later than thirty-five (35) days prior to the intended test date.

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

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

#### **C.8 Compliance Requirements [326 IAC 2-1.1-11]**

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

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

#### **C.9 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.10 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.11 Response to Excursions or Exceedances

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

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

### C.12 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

## **Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]**

### **C.13 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.14 General Record Keeping Requirements [326 IAC 2-6.1-5]**

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

### **C.15 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]**

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- (a) Reports required by conditions in Section D of this permit shall be submitted to:

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

- (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) 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:

- (a) 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.

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

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

#### D.1.1 Particulate [326 IAC 6.5]

Pursuant to 326 IAC 6.5-1-2(h), the Permittee shall comply with the following:

- (a) Particulate from the paint booth 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.

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.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for this facility and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

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

#### D.1.3 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.1, the Permittee shall maintain records of the results of the inspections required under Condition D.1.1.
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

## SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (b) One (1) powder coating system, identified as PC01, constructed in 2010, with a maximum coating usage of 15.98 lb/hour, using a powder coating reclamation system for product recovery, and exhausting within an enclosed environmentally controlled room within the facility.

Note: IDEM has determined the powder coating reclamation system as integral to the powder coating process, therefore the permit level determination is based upon the potential to emit after control.

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

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

#### D.2.1 Particulate [326 IAC 6.5]

Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from the powder coating system (PC01) shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

#### D.2.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for this facility (powder coating system (POC01)) and the powder coating reclamation system. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

### Compliance Determination Requirements

#### D.2.3 Particulate Control

In order to comply with Condition D.2.1, the powder coating reclamation system shall be in operation at all times when the powder coating system (PC01) is in operation.

#### D.2.4 Powder Coating Reclamation System Failure Detection

In the event that a failure of the powder coating reclamation system has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the powder coating system (PC01). 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).

### SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

**Emissions Unit Description:**

- (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.

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

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

D.3.1 Particulate [326 IAC 6.5]

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Pursuant to 326 IAC 6.5-1-2(a), the particulate matter emissions from the twenty-six (26) MIG welding stations listed above shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT 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>	M141-32201-00554

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 M141-32201-00554.  
 not in compliance with the requirements of MSOP M141-32201-00554.

<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**  
**COMPLIANCE AND ENFORCEMENT BRANCH**  
**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  
Minor Source Operating Permit Renewal

**Source Background and Description**

<b>Source Name:</b>	<b>Hoosier Tank and Manufacturing, Inc.</b>
<b>Source Location:</b>	<b>1710 North Sheridan Street, South Bend, IN 46628</b>
<b>County:</b>	<b>St. Joseph</b>
<b>SIC Code:</b>	<b>3443 (Fabricated Plate Work)</b>
<b>Permit Renewal No.:</b>	<b>M141-32201-00554</b>
<b>Permit Reviewer:</b>	<b>Joshua Levering</b>

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Hoosier Tank and Manufacturing, Inc. related to an existing stationary metal pressure tanks manufacturing source. On August 13, 2012, Hoosier Tank and Manufacturing, Inc. submitted an application to the OAQ requesting to renew its operating permit. Hoosier Tank and Manufacturing, Inc. was issued its first MSOP (M141-24693-00554) on January 2, 2008.

**Permitted Emission Units and Pollution Control Equipment**

The source consists of the following permitted emission units:

- (a) 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.
- (b) 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.
- (c) 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.
- (d) 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.
- (e) 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.
- (f) Fugitive emissions from paved roads and parking lots.

### **Emission Units and Pollution Control Equipment Constructed and/or Operated without a Permit**

The source also consists of the following emission units that were constructed and/or are operating without a permit:

- (a) One (1) powder coating system, identified as PC01, constructed in 2010, with a maximum coating usage of 15.98 lb/hour, using a powder coating reclamation system for product recovery, and exhausting within an enclosed environmentally controlled room within the facility.

Note: IDEM has determined the powder coating reclamation system as integral to the powder coating process, therefore the permit level determination is based upon the potential to emit after control.

- (b) Two (2) natural gas-fired air heating systems, identified as AM01 and AM02, with a combined maximum capacity of 13.60 MMBtu/hour. These units were constructed in 2010.

### **Emission Units and Pollution Control Equipment Removed From the Source**

The source has removed the following emission units:

- (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) 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.

### **Existing Approvals**

There have been no further approvals since the issuance of MSOP 141-24693-00554 on January 2, 2008.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

### **Air Pollution Control Justification as an Integral Part of the Process**

The applicant has submitted the following justification such that the powder reclamation component, consisting of the capture and recirculation, should be considered as an integral part of the powder coating system:

The powder reclamation component is integral to the powder coating process because it acts as a product recovery device. The annual usage is approximately 140,000 pounds at a cost of \$3.41 per pound of powder. The source operates at an approximate annual rate of 4,550 hours. The first pass transfer efficiency is 75% and the remaining 25% is collected on the powder reclamation component's cartridge filters. The filters are blasted with a reverse jet pulse that knocks the recovered powder down where it is recovered and sent to the hopper. The powder is recirculated and applied. The annual amount of powder reclaimed by this system is approximately 46,000 pounds, or 10.11 pounds per hour for a saving of \$34.48 per hour of operation. The powder reclamation component captures and reapplies approximately \$156,860 worth of powder coatings per 12 (twelve) month period. The recovery and reuse of powder coatings is a significant economic benefit for the source because it reduces the amount of coating the source has to purchase. The economic benefit of the control equipment is as follows:

<b>Powder Coat Reclamation System</b> (all values per year)	
Amount of Powder Used =	140,000 pounds
Amount of Powder Recovered =	46,000 pounds
Powder Cost =	\$3.41 per pound
Value of Recovered Powder =	\$156,860 per year
Operation and Maintenance =	\$72,000 per year
<b>Potential Savings =</b>	<b>\$84,860</b>

Methodology: Amount of Powder Recovered = Amount of Powder Used \* (1 - Approximate First Pass Efficiency of 75%)  
 Value of Recovered Powder = Amount of Powder Recovered \* Powder Cost

IDEM, OAQ has evaluated the information submitted and agreed that the powder coat reclamation component should be considered an integral part of the powder coat system. This determination is based on the fact that the total cost of installation, operation, and maintenance of the system is far less than the net savings that the source enjoys from recovering otherwise lost product. Therefore, the permitting level will be determined using the potential to emit after the powder coat reclamation component. Operating conditions in the proposed permit will specify that the powder coat reclamation component shall operate at all times when the powder coat system is in operation.

**Enforcement Issue**

IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled "Emission Units and Pollution Control Equipment Constructed and/or Operated without a Permit".

IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

**Emission Calculations**

See Appendix A of this document for detailed emission calculations.

**County Attainment Status**

The source is located in St. Joseph County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Attainment effective July 19, 2007, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Not designated.

<sup>1</sup>Attainment effective October 18, 2000, for the 1-hour ozone standard for the South Bend-Elkhart area, including St. Joseph County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standards (NAAQS) for purposes of 40 CFR 51, Subpart X\*. The 1-hour standard was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM2.5.

- (a) **Ozone Standards**  
 Volatile organic compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. St. Joseph County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) St. Joseph County has been classified as attainment for PM<sub>2.5</sub>. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM<sub>2.5</sub> emissions. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct PM<sub>2.5</sub> significant level at ten (10) tons per year. This rule became effective, June 28, 2011. Therefore, direct PM<sub>2.5</sub>, SO<sub>2</sub>, and NO<sub>x</sub> 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) **Other Criteria Pollutants**  
 St. Joseph 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.

**Fugitive Emissions**

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

**Unrestricted Potential Emissions**

This table reflects the unrestricted potential emissions of the source.

Unrestricted Potential Emissions	
Pollutant	Tons/year
PM*	14.03
PM <sub>10</sub> *	13.84
PM <sub>2.5</sub> *	13.71
SO <sub>2</sub>	0.05
VOC	13.31
CO	7.39
NO <sub>x</sub>	8.80
GHGs as CO <sub>2</sub> e	10,628
Single HAP	0.16 (Hexane)
Total HAP	0.29

HAPs	tons/year
Hexane	0.16
Manganese	0.12
All Other HAPs	0.01
<b>Total</b>	<b>0.29</b>

\*IDEM has determined the powder coating reclamation system is integral to the powder coating operation. Therefore, the potential to emit PM/PM10/PM2.5 from the powder coating operation after taking into consideration the pollution reduction aspect of the integral reclamation system is used for determining Part 70 permitting applicability.

Appendix A of this TSD reflects the unrestricted potential emissions of the source.

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all regulated pollutants, excluding GHGs, is less than 100 tons per year. No regulated pollutant is equal to or greater than twenty-five (25) tons per year, however, the source has decided to retain its MSOP status. The source is not subject to the provisions of 326 IAC 2-7. Therefore, the source will be issued an MSOP Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of GHGs is less than one hundred thousand (100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per year.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less 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 less than twenty-five (25) tons per year. Therefore, the source will be issued an MSOP Renewal.

**Potential to Emit After Issuance**

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 MSOP 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 of the Entire Source After Issuance of Renewal (tons/year)									
	PM	PM <sub>10</sub> *	PM <sub>2.5</sub> **	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs	Total HAPs	Worst Single HAP
Paint Booth	11.48	11.48	11.48	-	-	12.82	-	-	-	-
Powder Coating Operation***	0.17 (17.50)	0.17 (17.50)	0.17 (17.50)	-	-	-	-	-	-	-
Welding Area	1.33	1.33	1.33	-	-	-	-	-	0.12	0.12 Manganese
Paved Roads (Fugitives)	0.87	0.17	0.04	-	-	-	-	-	-	-
Natural Gas-Fired Units	0.17	0.67	0.67	0.05	8.80	0.48	7.39	10,628	0.17	0.16 Hexane
<b>Total PTE of Entire Source</b>	<b>14.03 (31.36)</b>	<b>13.84 (31.16)</b>	<b>13.71 (31.03)</b>	<b>0.05</b>	<b>8.80</b>	<b>13.31</b>	<b>7.39</b>	<b>10,628</b>	<b>0.29</b>	<b>0.16 Hexane</b>
Title V Major Source Thresholds	NA	100	100	100	100	100	100	100,000 CO <sub>2</sub> e	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000 CO <sub>2</sub> e	NA	NA

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)									
	PM	PM <sub>10</sub> *	PM <sub>2.5</sub> **	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs	Total HAPs	Worst Single HAP
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
negl. = negligible *Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". **PM <sub>2.5</sub> listed is direct PM <sub>2.5</sub> . *** IDEM has determined the powder coating reclamation system is integral to the powder coating operation. Therefore the permit level determination is based upon the potential to emit after taking into account the pollution reduction aspect of the integral reclamation system.. However, for purposes of PSD applicability, the PTE prior to the powder coating reclamation system (shown in parenthesis) is utilized.										

- (a) This existing stationary source is not major for PSD because the emissions of each regulated pollutant, excluding GHGs, are less than two hundred fifty (<250) tons per year, emissions of GHGs are less than one hundred thousand (<100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per year, and it is not in one of the twenty-eight (28) listed source categories.

**Federal Rule Applicability**

New Source Performance Standards (NSPS)

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

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (a) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63, Subpart M (326 IAC 20-80), are not included in the permit, since this source's potential to emit any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year.
- (b) The requirements of the National Emission Standards for Hazardous Air Pollutants for Halogenated Solvent Cleaning (326 IAC 20-6 and 40 CFR Part 63, Subpart T) are not included in this permit for the spray gun clean-up operations. Those operations do not use a solvent containing methylene chloride, perchlorethylene, trichlorethylene, 1,1,1-trichlorethane, carbon tetrachloride, chloroform or any combination of these halogenated HAP solvents in a total concentration greater than five percent (5%) by weight as a cleaning or drying agent.
- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63.11169, Subpart HHHHHH, are not included in the permit because the source does not have paint stripping operations that involve the use of chemical strippers that contain methylene chloride (MeCl), does not perform autobody refinishing operations that encompass motor vehicle and mobile equipment spray-applied surface coating operations, and does not perform spray application of coatings containing

compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd), to any part or product made of metal or plastic, or combinations of metal and plastic that are not motor vehicles or mobile equipment.

- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants for Nine Metal Fabrication and Finishing Source Categories (40 CFR 63 Subpart XXXXXX), are not included in this permit because this source is engaged in manufacturing and fabricating of metal products, but does not use materials that contain metal HAPs (compounds of cadmium, chromium, and manganese) as defined in §63.11522.
- (e) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

#### Compliance Assurance Monitoring (CAM)

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

<b>State Rule Applicability - Entire Source</b>
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- (a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))  
MSOP applicability is discussed under the Unrestricted Potential Emissions – MSOP section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))  
PSD Applicability is discussed under the Potential to Emit After Issuance section of this document.
- (c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))  
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (d) 326 IAC 2-6 (Emission Reporting)  
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (e) 326 IAC 1-6-3 (Preventive Maintenance Plan)  
The source is subject to 326 IAC 1-6-3.
- (f) 326 IAC 5-1 (Opacity Limitations)  
This source is subject to the opacity limitations specified in 326 IAC 5-1-2(2).
- (g) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)  
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.
- (h) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)  
The source is not subject to the requirements of 326 IAC 6-5, because the potential fugitive particulate emissions from paved roads are less than 25 tons per year.

- (i) 326 IAC 6.5 (Particulate Matter Limitations Except Lake County)  
This source is located in St. Joseph County, and is not specifically listed in 326 IAC 6.5-7. Pursuant to 326 IAC 6.5-1-1(a)(2), this rule applies to sources with the potential to emit 100 tons or more of PM per year or sources with actual PM emissions of 10 tons or more per year. This source has an unlimited potential to emit 14.03 tons of PM per year. Therefore, this source is subject to the requirements of 326 IAC 6.5 because the actual PM emissions from the source are greater than 10 tons per year and the source has not agreed to limit PM emissions to less than 10 tons per year.

<b>State Rule Applicability – Individual Facilities</b>
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Paint Booth

- (a) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-1(c)(3), the requirements of 326 IAC 6-3 shall not apply if a more stringent limit under 326 IAC 6.5 has been established. The particulate emissions from the paint booth are subject to a more stringent limit in 326 IAC 6.5 (Particulate Emission Limitations). Therefore, the requirements of 326 IAC 6-3 shall not apply.
- (b) 326 IAC 6.5 (Particulate Emission Limitations)  
Pursuant to 326 IAC 6.5-1-2(h), the source shall comply with the following:
- (1) Particulate emissions from the paint booth shall be controlled by dry particulate filter, and the Permittee shall operate the control device in accordance with the manufacturer's specifications.
- (2) If overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and do either of the following no later than four (4) hours after the observation:
- (A) Repair the control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (B) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- If overspray is visibly detected, the source 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 detectable at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.
- (c) 326 IAC 8-1-6 (New Facilities; General Reduction Requirements)  
The paint booth was constructed after January 1, 1980 and the unlimited potential VOC emissions when surface coating are less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 do not apply.
- (d) 326 IAC 8-2-2 (Automobile and Light Duty Truck Coating Operations)  
The requirements of 326 IAC 8-2-2 are not applicable to the paint booth since it is not used to perform surface coating of automobiles or light duty trucks as defined in 326 IAC 8-2-2(a). The paint booth applies surface coating to metal pressure tanks.
- (e) 326 IAC 8-2-9 (Miscellaneous Metal and Plastic Coating Operations)  
Pursuant to 326 IAC 8-2-1(a)(2), the requirements of 326 IAC 8-2-9 are not applicable to the paint booth since the potential emissions are less than twenty-five (25) tons per year of VOC.

### Powder Coating Operation

- (a) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-1(c)(3), the requirements of 326 IAC 6-3 shall not apply if a more stringent limit under 326 IAC 6.5 has been established. The particulate emissions from the powder coating operation are subject to a more stringent limit in 326 IAC 6.5 (Particulate Emission Limitations). Therefore, the requirements of 326 IAC 6-3 shall not apply.
- (b) 326 IAC 6.5 (Particulate Emission Limitations)  
Pursuant to 326 IAC 6.5-1-2(a), particulate emissions from the powder booth stack exhaust shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).
- (c) 326 IAC 8-2-9 (Miscellaneous Metal and Plastic Coating Operations)  
The requirements of 326 IAC 8-2-9 are not applicable to the powder coating operation since it does not have the potential to emit any VOC.

### Natural Gas-fired Units

- (a) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)  
The natural gas-fired units are not subject to 326 IAC 6-2 because they are not sources of indirect heating.
- (b) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
  - (1) The two (2) natural gas-fired air heating systems and the eight (8) natural gas-fired space heaters are not subject to 6-3 because these emission units are not considered manufacturing processes.
  - (2) The two (2) natural gas-fired curing/drying ovens and the one (1) natural gas-fired hot water washer are subject to 6-3 because they are manufacturing processes. However, pursuant to 6-3-1(a)(14), these units are exempt because the potential to emit is less than five hundred fifty-one thousandths (0.551) pound per hour.
- (c) 326 IAC 6.5 (Particulate Emission Limitations)  
Pursuant to 326 IAC 6.5-1-2(b) particulate matter emissions limitations shall not be established for combustion units that burn only natural gas. Therefore, the requirements of 326 IAC 6.5 do not apply.
- (d) 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)  
The natural gas-fired units are not subject to the requirements of 326 IAC 7-1.1, because the potential sulfur dioxide emissions are less than twenty-five (25) tons per year and ten (10) pounds per hour.

### Welding Operations (Twenty-six (26) MIG welding stations)

- (a) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-1(b)(14), the 26 MIG welding stations are not subject to 326 IAC 6-3, since the potential particulate emissions are less than five hundred fifty-one thousandths (0.551) pounds per hour.

- (b) 326 IAC 6.5 (Particulate Emission Limitations)  
Pursuant to 326 IAC 6.5-1-2(a), particulate emissions from the twenty-six (26) MIG welding stations shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).

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

There are no compliance monitoring requirements applicable to this source.

#### **Recommendation**

The staff recommends to the Commissioner that MSOP Renewal 141-32201-00554 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 August 13, 2012. Additional information was received on October 1, 2012.

#### **Conclusion**

The operation of this existing stationary metal pressure tanks manufacturing source shall be subject to the conditions of the attached MSOP Renewal No. M141-32201-00554.

#### **IDEM Contact**

- (a) Questions regarding this proposed permit can be directed to Joshua Levering at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-6543 or toll free at 1-800-451-6027 extension 4-6543.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov)

**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: 141-32201-00554  
Reviewer: Joshua Levering  
Date: Sept. 2012**

<b>Uncontrolled Emissions in tons/year</b>											
Emission Unit	PM	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs	Total HAPs	Single Worst HAP	
Paint Booth	11.48	11.48	11.48	-	-	12.8	-	-	-	-	-
Powder Coating Operation*	0.17	0.17	0.17	-	-	-	-	-	-	-	-
<i>PSD PTE</i>	<i>17.50</i>	<i>17.50</i>	<i>17.50</i>								
Welding Area	1.33	1.33	1.33	-	-	-	-	-	0.12	0.12	Mn
Paved Roads (Fugitives)	0.87	0.17	0.04	-	-	-	-	-	-	-	-
Natural Gas Fired Units	0.17	0.67	0.67	0.05	8.80	0.48	7.39	10,628	0.17	0.16	Hexane
<b>Total PTE (tons/yr)</b>	<b>14.03</b>	<b>13.84</b>	<b>13.71</b>	<b>0.05</b>	<b>8.80</b>	<b>13.31</b>	<b>7.39</b>	<b>10,628</b>	<b>0.29</b>	<b>0.16</b>	<b>Hexane</b>
<i>PSD PTE</i>	<i>31.36</i>	<i>31.16</i>	<i>31.03</i>	--	--	--	--	--	--	--	--

\*IDEM has determined the powder coating reclamation system is integral to the powder coating operation, therefore the permit level determination is based upon the potential to emit after taking into account the powder coating reclamation system pollution reduction effects. However, for purposes of PSD applicability, the PTE prior to the powder coating reclamation system (shown in italics) is utilized.

<b>Potential to Emit After Issuance of Permit</b>											
Emission Unit	PM	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs	Total HAPs	Single Worst HAP	
Paint Booth	11.48	11.48	11.48	-	-	12.82	-	-	-	-	-
Powder Coating Operation*	0.17	0.17	0.17	-	-	-	-	-	-	-	-
<i>PSD PTE</i>	<i>17.50</i>	<i>17.50</i>	<i>17.50</i>								
Welding Area	1.33	1.33	1.33	-	-	-	-	-	0.12	0.12	Mn
Paved Roads (Fugitives)	0.87	0.17	0.04	-	-	-	-	-	-	-	-
Natural Gas Fired Units	0.17	0.67	0.67	0.05	8.80	0.48	7.39	10,628	0.17	0.16	Hexane
<b>Total PTE (tons/yr)</b>	<b>14.03</b>	<b>13.84</b>	<b>13.71</b>	<b>0.05</b>	<b>8.80</b>	<b>13.31</b>	<b>7.39</b>	<b>10,628</b>	<b>0.29</b>	<b>0.16</b>	<b>Hexane</b>
<i>PSD PTE</i>	<i>31.36</i>	<i>31.16</i>	<i>31.03</i>	--	--	--	--	--	--	--	--

\*IDEM has determined the powder coating reclamation system is integral to the powder coating operation, therefore the permit level determination is based upon the potential to emit after taking into account the powder coating reclamation system pollution reduction effects. However, for purposes of PSD applicability, the PTE prior to the powder coating reclamation system (shown in italics) is utilized.

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

**Company Name: Hoosier Tank and Manufacturing Inc.**  
**Address: 1710 Sheridan Street, South Bend, IN 46628**  
**MSOP: 141-32201-00554**  
**Reviewer: Joshua Levering**  
**Date: Sept. 2012**

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 (lbs/hr)	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	2.6	11.48
<b>Uncontrolled Emissions Totals</b>										<b>2.9</b>	<b>70</b>	<b>12.8</b>	<b>2.6</b>	<b>11.48</b>
PM Control Efficiency 79.1% therefore PM after controls														<b>2.41</b>

Note: 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: Emissions Calculations  
Particulate  
From Powder Coating Booth**

**Company Name:** Hoosier Tank and Manufacturing, Inc.  
**Address:** 1710 North Sheridan Street, South Bend, IN 46628  
**Permit Number:** 141-32201-00554  
**Permit Reviewer:** Joshua Levering  
**Date:** Sept. 2012

Process	Maximum Coating Usage (lbs/hr)	Transfer Efficiency (%)	Uncontrolled Particulate (lbs/hr)	Uncontrolled Particulate (tons/yr)**	Control Efficiency (%)	Potential Particulate (lbs/hr)*	Potential Particulate (tons/yr)*
Powder Coating Booth	15.98	75.00%	4.00	17.50	99%	0.040	0.17
<b>Total</b>				<b>17.50</b>			<b>0.17</b>

\* The powder coating booth is equipped with a powder coat reclamation system that IDEM has determined integral to the process. Therefore, the potential to emit particulate will be determined after the reclamation system.

\*\* PM=PM10=PM2.5

**Methodology**

Uncontrolled Particulate (lbs/hr) = Maximum Usage (lbs/hr) \* Transfer Efficiency (%)

Uncontrolled Particulate (tons/yr) = Maximum Usage (lbs/hr) \* Transfer Efficiency (%) \* 8760 (hrs/yr) \* 1/2000 (ton/lbs)

Potential Particulate (lbs/hr) = Uncontrolled Particulate (lbs/hr) \* (1 - % Control Efficiency)

Potential Particulate (tons/yr) = Uncontrolled Particulate (lbs/hr) \* (1 - % Control Efficiency) \* 8760 (hrs/yr) \* 1/2000 (ton/lbs)

**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:** 141-32201-00554  
**Reviewer:** Joshua Levering  
**Date:** Sept. 2012

	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: Emissions Calculations**

**Natural Gas Combustion Only**

**MM BTU/HR <100**

**Company Name: Hoosier Tank and Manufacturing, Inc.**  
**Address City IN Zip: 1710 North Sheridan Street, South Bend, IN 46628**  
**Permit Number: 141-32201-00554**  
**Reviewer: Joshua Levering**  
**Date: Sept. 2012**

Two (2) natural gas-fired curing/drying ovens, identified as OV01 and OV02, each with a maximum capacity of 1.5 Mmbtu/hr, constructed in 2004.  
 Eight (8) natural gas-fired space heaters identified as SH1 through SH8 with a combined maximum capacity of 2.4 MMBtu/hr, constructed in 2004.  
 One (1) natural gas-fired hot water washer, identified as WW01, with a maximum capacity of 1.5 MMBtu/hr, constructed in 2004.  
 Two (2) Natural gas-fired Air Heaters; identified as AM01 rated at 5.83 MMBtu/hr, and AM02 rated at 7.77 MMBtu/hr.

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
20.5	1020	176.1

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx 100 **see below	VOC	CO
Potential Emission in tons/yr	0.2	0.7	0.7	0.1	8.8	0.5	7.4

\*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.  
 PM2.5 emission factor is filterable and condensable PM2.5 combined.  
 \*\*Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

**Methodology**

All emission factors are based on normal firing.  
 MMBtu = 1,000,000 Btu  
 MMCF = 1,000,000 Cubic Feet of Gas  
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03  
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu  
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 2 for HAPs emissions calculations.

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

**Company Name: Hoosier Tank and Manufacturing, Inc.  
 Address City IN Zip: 1710 North Sheridan Street, South Bend, IN 46628  
 Permit Number: 141-32201-00554  
 Reviewer: Joshua Levering  
 Date: Sept. 2012**

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.849E-04	1.056E-04	6.602E-03	1.585E-01	2.993E-04

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	4.401E-05	9.683E-05	1.232E-04	3.345E-05	1.849E-04

Methodology is the same as page 1.

<b>Total HAPs</b>	<b>0.17</b>
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The five highest organic and metal HAPs emission factors are provided above.  
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.  
 See Page 3 for Greenhouse Gas calculations.

**Appendix A: Emissions Calculations**

**Natural Gas Combustion Only**

**MM BTU/HR <100**

**Greenhouse Gas Emissions**

**Company Name: Hoosier Tank and Manufacturing, Inc.**

**Address City IN Zip: 1710 North Sheridan Street, South Bend, IN 46628**

**Permit Number: 141-32201-00554**

**Reviewer: Joshua Levering**

**Date: Sept. 2012**

	Greenhouse Gas		
Emission Factor in lb/MMcf	CO2 120,000	CH4 2.3	N2O 2.2
Potential Emission in tons/yr	10,564	0.2	0.2
Summed Potential Emissions in tons/yr	10,564		
CO2e Total in tons/yr	10,628		

**Methodology**

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Appendix A: Emission Calculations  
Fugitive Dust Emissions - Paved Roads**

**Company Name: Hoosier Tank and Manufacturing, Inc.  
Source Address: 1710 North Sheridan Street, South Bend, IN 46628  
Permit Number: 141-32201-00554  
Reviewer: Joshua Levering  
Date: Sept. 2012**

**Paved Roads at Industrial Site**

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Information (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	1.0	1.0	1.0	1.0	1.0	10000	1.894	1.9	691.3
Vehicle (leaving plant) (one-way trip)	1.0	1.0	1.0	1.0	1.0	10000	1.894	1.9	691.3
<b>Totals</b>			<b>2.0</b>		<b>2.0</b>			<b>3.8</b>	<b>1382.6</b>

Average Vehicle Weight Per Trip = 

15.0	tons/trip
------	-----------

  
Average Miles Per Trip = 

0.04	miles/trip
------	------------

Unmitigated Emission Factor, Ef = [k \* (sL)<sup>0.91</sup> \* (W)<sup>1.02</sup>] (Equation 1 from AP-42 13.2.1)

	PM	PM10	PM2.5	
where k =	0.011	0.0022	0.00054	lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)
W =	15.0	15.0	15.0	tons = average vehicle weight (provided by source)
sL =	9.7	9.7	9.7	g/m <sup>2</sup> = silt loading value for paved roads at iron and steel production facilities - Table 13.2.1-3)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = E \* [1 - (p/4N)] (Equation 2 from AP-42 13.2.1)

Mitigated Emission Factor, Eext = Ef \* [1 - (p/4N)]  
where p = 

125	days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
-----	---

  
N = 

365	days per year
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	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	1.377	0.275	0.0676	lb/mile
Mitigated Emission Factor, Eext =	1.259	0.252	0.0618	lb/mile

Process	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)
Vehicle (entering plant) (one-way trip)	0.44	0.09	0.02
Vehicle (leaving plant) (one-way trip)	0.44	0.09	0.02
<b>Totals</b>	<b>0.87</b>	<b>0.17</b>	<b>0.04</b>

**Methodology**

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] \* [Maximum trips per day (trip/day)]  
Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]  
Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] \* [Maximum one-way distance (mi/trip)]  
Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]  
Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]  
Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] \* [Unmitigated Emission Factor (lb/mile)] \* (ton/2000 lbs)  
Mitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] \* [Mitigated Emission Factor (lb/mile)] \* (ton/2000 lbs)  
Controlled PTE (tons/yr) = [Mitigated PTE (tons/yr)] \* [1 - Dust Control Efficiency]

**Abbreviations**

PM = Particulate Matter  
PM10 = Particulate Matter (<10 um)  
PM2.5 = Particle Matter (<2.5 um)  
PTE = Potential to Emit



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Michael R. Pence*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

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

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

**TO:** Jason Welch  
Hoosier Tank & Manufacturing, Inc  
1710 Sheridan Street  
South Bend, IN 46628

**DATE:** January 25, 2013

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

**SUBJECT:** Final Decision  
MSOP  
141-32201-00554

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

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

A copy of the final decision and supporting materials has also been sent via standard mail to:  
William Welch (Vice President)  
Doug Elliot (D&B Environmental Services, Inc)  
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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*Michael R. Pence*  
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January 25, 2013

TO: St. Joseph County Public Library

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

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

**Applicant Name: Hoosier Tank & Manufacturing, Inc**  
**Permit Number: 141-32201-00554**

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

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

Enclosures  
Final Library.dot 11/30/07

# Mail Code 61-53

IDEM Staff	MIDENNEY 1/25/2013 Hoosier Tank And Manufacturing, Inc. 141-32201-00554 (final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING	
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Jason Welsch Hoosier Tank And Manufacturing, Inc. 1710 Sheridan Street South Bend IN 46628 (Source CAATS)via confirm delivery										
2		William Welsch Vice President Hoosier Tank And Manufacturing, Inc. 1710 Sheridan Street South Bend IN 46628 (RO CAATS)										
3		Mr. Wayne Falda South Bend Tribune 255 W Colfax Ave South Bend IN 46626 (Affected Party)										
4		South Bend City Council / Mayors Office 227 W. Jefferson Blvd. South Bend IN 46601 (Local Official)										
5		Mr. Doug Elliott D & B Environmental Services, Inc. 401 Lincoln Way West Osceola IN 46561 (Consultant)										
6		St. Joseph County Board of Commissioners 227 West Jefferson Blvd, South Bend IN 46601 (Local Official)										
7		St. Joseph County Health Department 227 W Jefferson Blvd, Room 825 South Bend IN 46601-1870 (Health Department)										
8		St. Joseph County Public Library 304 South Main Street South Bend IN 46601 (Library)										
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