



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant

DATE: September 28, 2009

RE: TMF Center, Inc. / 171-27638-00012

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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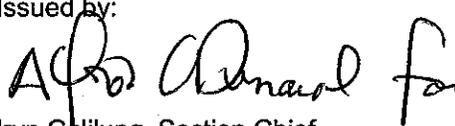
## New Source Review and Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

**TMF Center, Inc.  
300 West Washington Street  
Williamsport, Indiana 47993**

(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.: M171-27638-00012	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: September 28, 2009 Expiration Date: September 28, 2019

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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 construction machinery.

Source Address:	300 West Washington Street, Williamsport, Indiana 47993
Mailing Address:	300 West Washington Street, Williamsport, Indiana 47993
General Source Phone Number:	765-762-1000
SIC Code:	3531
County Location:	Warren
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) Shot Blasting units:

- (1) One (1) swing table shot blaster, identified as SB-1, installed in 1994, equipped with a dust collector BH-1, shot blasting steel, exhausting outside the building, maximum capacity: 435 pounds per hour of metal parts and 8.99 pound per hour of steel shots .
- (2) One (1) tumbler shot blaster, identified as SB-2, installed in 1994, equipped with a dust collector BH-2, shot blasting steel, exhausting outside the building, maximum capacity: 882 pounds of metal parts per hour and 6.54 pounds per hour of steel shots.
- (3) One (1) WCRC-4 shot blaster, identified as SB-3, installed in 1994, equipped with a dust collector BH-3, shot blasting steel, exhausting outside the building, maximum capacity: 1557 pounds of metal parts per hour and 8.17 pounds per hour of steel shots.
- (4) One (1) swing table shot blaster, identified as SB-4, installed in 2007, equipped with a dust collector BH-4, shot blasting steel, exhausting outside the building, maximum capacity: 435 pounds per hour of metal parts and 8.99 pound per hour of steel shots .

#### (b) Paint Spray Booths:

- (1) One (1) paint booth, identified as PB-1, installed in 1994, equipped with three (3) layers of dry filters, air atomized spray guns and one (1) dip tank, exhausting to three (3) general ventilation wall fans, maximum capacity: 400 metal parts per hour.
- (2) One (1) powder spray booth, identified as PB-2, constructed in 2009, using electrostatic spray gun to apply powder, equipped with cartridge filers, exhausting inside, maximum capacity; 2,500 pounds of parts coated per hour, and using 1.79 pounds of powder per hour.

(c) Welding/Cutting Units:

- (1) Five (5) welding units, identified as W-1 through W-5, installed in 1998, maximum capacity: one hundred (100) metal parts per hour, total.
- (2) Five (5) welding units, identified as W-6 through W-10, installed in 2001, maximum capacity: twenty (20) metal parts per hour, each.
- (3) One (1) cutting unit, identified as C-1, installed in 1994, maximum capacity: twenty-five (25) parts per hour.

(d) Natural Gas-fired space heaters:

- (1) Six (6) natural gas-fired space heaters, identified as S-1 through S-6, installed in 1994, exhausting to Stacks S-1 through S-6, rated at 0.3 million British thermal units per hour, each.
- (2) One (1) natural gas-fired space heater, identified as S-7, installed in 1994, exhausting to Stack S-7, rated at 0.25 million British thermal units per hour.
- (3) One (1) natural gas-fired space heater, identified as S-8, installed in 1994, exhausting to Stack S-8, rated at 0.2 million British thermal units per hour.
- (4) Three (3) natural gas-fired space heaters, identified as S-9 through S-11, installed in 1999, exhausting to Stacks S-9 through S-11, rated at 0.2 million British thermal units per hour, each.
- (5) Two (2) natural gas-fired space heaters, identified as S-12 and S-13, installed in 1999, exhausting to Stacks S-12 and S-13, rated at 0.25 million British thermal units per hour, each.
- (6) One (1) natural gas-fired powder coating curing oven, identified as S-14, constructed in 2009, rated at 0.8 MMBtu/hr.

## **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, M171-27638-00012, 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. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

#### B.8 Certification

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

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

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- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, IN 46204-2251
- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

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

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) 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.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

**B.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to M171-27638-00012 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

**B.12 Termination of Right to Operate [326 IAC 2-6.1-7(a)]**

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least 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.13 Permit Renewal [326 IAC 2-6.1-7]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
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 in writing by IDEM, OAQ any additional information identified as being needed to process the application.

**B.14 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]**

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

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

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

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

- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

**B.15 Source Modification Requirement**

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

**B.16 Inspection and Entry**

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[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.17 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management  
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 the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

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

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- (a) The Permittee shall pay annual fees due within 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.19 Credible Evidence [326 IAC 1-1-6]**

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

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

**C.2 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.3 Opacity [326 IAC 5-1]**

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

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

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

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

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

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

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

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

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana 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.8 Performance Testing [326 IAC 3-6]**

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

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

#### **C.9 Compliance Requirements [326 IAC 2-1.1-11]**

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

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

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

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

### **C.11 Maintenance of Continuous Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]**

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- (a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous emission monitoring systems (CEMS) and related equipment.
- (b) In the event that a breakdown of a continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (c) Whenever a continuous emission monitor other than an opacity monitor is malfunctioning or will be down for calibration, maintenance, or repairs for a period of four (4) hours or more, a calibrated backup CEMS shall be brought online within four (4) hours of shutdown of the primary CEMS, and shall be operated until such time as the primary CEMS is back in operation.
- (d) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system.

### **C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

### **C.13 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.14 Response to Excursions or Exceedances**

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- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
  - (1) initial inspection and evaluation;

- (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
- (1) monitoring results;
  - (2) review of operation and maintenance procedures and records; and/or
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
- (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

**C.15 Actions Related to Noncompliance Demonstrated by a Stack Test**

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

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

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

**C.16 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.17 General Record Keeping Requirements [326 IAC 2-6.1-5]

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

C.18 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance 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) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) 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) Shot Blasting Units:

- (1) One (1) swing table shot blaster, identified as SB-1, installed in 1994, equipped with a dust collector BH-1, shot blasting steel, exhausting outside the building, maximum capacity: 435 pounds per hour of metal parts and 8.99 pound per hour of steel shots .
- (2) One (1) tumbler shot blaster, identified as SB-2, installed in 1994, equipped with a dust collector BH-2, shot blasting steel, exhausting outside the building, maximum capacity: 882 pounds of metal parts per hour and 6.54 pounds per hour of steel shots.
- (3) One (1) WCRC-4 shot blaster, identified as SB-3, installed in 1994, equipped with a dust collector BH-3, shot blasting steel, exhausting outside the building, maximum capacity:1557 pounds of metal parts per hour and 8.17 pounds per hour of steel shots.
- (4) One (1) swing table shot blaster, identified as SB-4, installed in 2007, equipped with a dust collector BH-4, shot blasting steel, exhausting outside the building, maximum capacity: 435 pounds per hour of metal parts and 8.99 pound per hour of steel shots .

(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 6-3-2(d)]

- (a) Pursuant to 326 IAC 6-3-2, the particulate (PM) emissions from the one (1) swing table shot blaster (SB-1), shall be limited to 1.50 lbs/hour, when operating at a process weight rate of 443.99 pounds of metal parts per hour.
- (b) Pursuant to 326 IAC 6-3-2, the particulate (PM) emissions from the one (1) tumbler shot blaster (SB-2), shall be limited to 2.38 lbs/hour, when operating at a process weight rate of 888.54 pounds of metal parts per hour.
- (c) Pursuant to 326 IAC 6-3-2, the particulate (PM) emissions from the one (1) WCRC-4 shot blaster (SB-3), shall be limited to 3.47 lbs/hour, when operating at a process weight rate of 1,557 pounds of metal parts per hour.
- (d) Pursuant to 326 IAC 6-3-2, the particulate (PM) emissions from the one (1) swing table shot blaster (SB-4), shall be limited to 1.50 lbs/hour, when operating at a process weight rate of 443.99 pounds of metal parts per hour.

These pounds per hour limitations in sections (a) through (d) were calculated using the equation below.

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

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

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

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

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

## Compliance Determination Requirements

### D.1.3 Particulate Control

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- (a) in order to comply with Condition D.1.1 the dust collectors for particulate control shall be in operation and control emissions from the four (4) shot blasters at all times that these facilities are in operation.
- (b) In the event that dust cartridge failure is observed in a multi-compartment dust collector, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

### D.1.4 Visible Emissions Notations

---

- (a) Daily visible emission notations of the shot blast facility stack exhaust, BH-1, BH-2, BH-3 and BH-4 shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

### D.1.5 Broken or Failed bag Detection

---

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced.
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line

Filer failure can be indicated by a significant drop in the baghouse pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

### D.1.6 Parametric Monitoring

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The Permittee shall record the pressure drop across the dust collectors used in conjunction with the shot blasting operation, at least once per day when the shot blasting process is in operation. When for any one reading, the pressure drop across the dust collector is outside the normal

range of 1.5 and 3.0 inches of water or a range established during the latest stack, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions and Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

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

#### **D.1.7 Record Keeping Requirements**

---

- (a) To document compliance with Condition D.1.4, the Permittee shall maintain records of visible emission notations of the stack exhaust from BH-1, BH-2, BH-3 and BH-4 once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) To document compliance Condition D.1.6, the Permittee shall maintain daily records of the pressure drop across the dust collectors, identified as BH-1, BH-2, BH-3 and BH-4, controlling the shot blast process. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g., the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

## SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (b) Paint Spray Booths:
- (1) One (1) paint booth, identified as PB-1, installed in 1994, equipped with three (3) layers of dry filters, air atomized spray guns and one (1) dip tank, exhausting to three (3) general ventilation wall fans, maximum capacity: 400 metal parts per hour.
  - (2) One (1) powder spray booth, identified as PB-2, constructed in 2009, using electrostatic spray gun to apply powder, equipped with cartridge filters, exhausting inside, maximum capacity; 2,500 pounds of parts coated per hour, and using 1.79 pounds of powder per hour.

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

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

#### D.2.1 Particulate Emission Limitations [326 IAC 6-3-2(d)]

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

#### D.2.2 Particulate Emission Limitations [326 IAC 6-3-2(e)]

Pursuant to 326 IAC 6-3-2(e), the particulate emissions from the powder spray booth, identified as PB-2, shall be limited to less 4.76 pounds per hour, when operating at a process weight rate of 1.25 tons per hour, consisting of 2,500 pounds of metal parts per hour and 1.79 pounds of powder per hour.

The pound per hour limitation was calculated with the following equation:

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

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

**D.2.3 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-2-9]**

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Pursuant to 326 IAC 8-2-9 (Volatile Organic Compounds, Miscellaneous Metal Coating Operations), when coating metal parts, the volatile organic compound (VOC) content of the coating delivered to the applicator at the surface coating operation, identified as PB-1, shall be limited to 3.5 pounds per gallon of coating, excluding water, for forced warm air dried coatings.

**D.2.4 Volatile Organic Compounds (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]**

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Pursuant to 326 IAC 8-2-9(f), all solvents sprayed from application equipment of paint booth, PB-1 during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

**D.2.5 Preventive Maintenance Plan**

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A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, the paint booth PB-1 and PB-2, is required for these facilities and the filters.

**Compliance Determination Requirements**

**D.2.6 Volatile Organic Compounds**

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Compliance with the VOC content and usage limitations contained in Condition D.2.3 shall be determined pursuant to 326 IAC 8-1-4(a)(3)(A) using formulation data supplied by the coating manufacturer. However, IDEM, OAQ reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

**D.2.7 Particulate Control**

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The three layers of dry filters of the paint spray booth, identified as PB-1, shall be in operation at all times when paint spray booth, is in operation.

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

**D.2.8 Record Keeping Requirements**

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(a) To document Compliance with Condition D.2.3, the Permittee shall maintain records in accordance with (1) through (2) below. Records maintained for (1) through (2) shall be taken monthly and shall be complete and sufficient to establish Compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.2.3. Records necessary to demonstrate Compliance shall be available within 30 days of the end of each Compliance period.

- (1) The VOC content of each coating material and solvent used less water.
- (2) The amount of coating material and solvent less water used on a monthly basis.
  - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
  - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

### SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

**Emissions Unit Description:** Welding and Space Heaters

- (c) Welding/Cutting Units:
- (1) Five (5) welding units, identified as W-1 through W-5, installed in 1998, maximum capacity: one hundred (100) metal parts per hour, total.
  - (2) Five (5) welding units, identified as W-6 through W-10, installed in 2001, maximum capacity: twenty (20) metal parts per hour, each.
  - (3) One (1) cutting unit, identified as C-1, installed in 1994, maximum capacity: twenty-five (25) parts per hour.
- (d) Natural Gas-fired space heaters:
- (1) Six (6) natural gas-fired space heaters, identified as S-1 through S-6, installed in 1994, exhausting to Stacks S-1 through S-6, rated at 0.3 million British thermal units per hour, each.
  - (2) One (1) natural gas-fired space heater, identified as S-7, installed in 1994, exhausting to Stack S-7, rated at 0.25 million British thermal units per hour.
  - (3) One (1) natural gas-fired space heater, identified as S-8, installed in 1994, exhausting to Stack S-8, rated at 0.2 million British thermal units per hour.
  - (4) Three (3) natural gas-fired space heaters, identified as S-9 through S-11, installed in 1999, exhausting to Stacks S-9 through S-11, rated at 0.2 million British thermal units per hour, each.
  - (5) Two (2) natural gas-fired space heaters, identified as S-12 and S-13, installed in 1999, exhausting to Stacks S-12 and S-13, rated at 0.25 million British thermal units per hour, each.
  - (6) One (1) natural gas-fired powder coating curing oven, identified as S-14, constructed in 2009, rated at 0.8 MMBtu/hr.

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

There are no applicable rules for this facility.

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

**MINOR SOURCE OPERATING PERMIT (MSOP)  
CERTIFICATION**

Source Name: TMF Center, Inc.  
Source Address: 300 West Washington Street, Williamsport, Indiana 47993  
Mailing Address: 300 West Washington Street, Williamsport, Indiana 47993  
MSOP No.: M171-27638-00012

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)\_\_\_\_\_
- Report (specify)\_\_\_\_\_
- Notification (specify)\_\_\_\_\_
- Affidavit (specify)\_\_\_\_\_
- Other (specify)\_\_\_\_\_

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE 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>	TMF Center, Inc.
<b>Address:</b>	300 West Washington Street
<b>City:</b>	Williamsport, Indiana 47993
<b>Phone #:</b>	765-762-1000
<b>MSOP #:</b>	M171-27638-00012

I hereby certify that TMF Center, Inc. is :

still in operation.

no longer in operation.

I hereby certify that TMF Center, Inc. is :

in compliance with the requirements of MSOP M171-27638-00012.

not in compliance with the requirements of MSOP M171-27638-00012.

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

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

<b>Noncompliance:</b>

### MALFUNCTION REPORT

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

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

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

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

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

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

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

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

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

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

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

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

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

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL\* SERVICES: \_\_\_\_\_  
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: \_\_\_\_\_  
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: \_\_\_\_\_  
INTERIM CONTROL MEASURES: (IF APPLICABLE) \_\_\_\_\_

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

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

\*SEE PAGE 2

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

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

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

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

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

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

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

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# Indiana Department of Environmental Management Office of Air Quality

## Technical Support Document (TSD) for a New Source Review and Minor Source Operating Permit (MSOP)

### Source Description and Location

<b>Source Name:</b>	<b>TMF Center, Inc.</b>
<b>Source Location:</b>	<b>300 W. Washington Street, Williamsport, Indiana 47993</b>
<b>County:</b>	<b>Warren</b>
<b>SIC Code:</b>	<b>3541</b>
<b>MSOP Permit Renewal No.:</b>	<b>M171-27638-00012</b>
<b>Permit Reviewer:</b>	<b>Swarna Prabha</b>

On March 20, 2009, the Office of Air Quality (OAQ) has received the operating permit renewal application from TMF Center, Inc. relating to the construction and operation of new emission unit and the continued operation of an existing stationary metal construction machinery plant.

### History

The existing source is equipped with three mechanical abrasive cleaners, identified as SB1, SB2, and SB3 in addition to other emission units. During applicant review, the source identified additional shot blaster, SB4 installed in 2007 to clean and grind the large mild clean steel pieces to assemble machinery. According to existing MSOP permit # 18498, the emissions from shot blasters were calculated based on conservative approach using the grain loading and the specific flow rates of the control devices (dust collectors). Due to the addition of a shot blaster, SB-4 installed in 2007, and using the conservative method of calculating emissions, the source transitioned to FESOP. On July 2, 2009 a Public Notice was published for TMF Center, Inc., for New Source Review and Federally Enforceable State Operating Permit. During Public Notice the applicant commented that the grain loading does not represent the realistic potential emissions from these operations, and requested recalculations using emission factors based on the process throughput, and still providing conservative estimate. Additionally, the process throughput was also modified.

Upon further evaluation, IDEM, OAQ determined that the emission factors used for cleaning and finishing operation for gray iron foundries from USEPA's Factor Information Retrieval data system, Version 6.25, better represents the operation TMF Center, Inc. performs. Therefore, the TMF Center, Inc. permit is transitioning back to MSOP level under 326 IAC 2-6, due to the revised emission factors for shot blast operation (TSD Appendix A).

### Existing Approvals

The source was issued MSOP No. 171-18498-00012 on July 21, 2004. The source has not received any other approval since the issuance of the MSOP.

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.

### Permitted Emission Units and Pollution Control Equipment

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

- (a) Shot Blasting units:
  - (1) One (1) swing table shot blaster, identified as SB-1, installed in 1994, equipped with a dust

collector BH-1, shot blasting steel, exhausting outside the building, maximum capacity: 435 pounds per hour of metal parts and 8.99 pound per hour of steel shots .

- (2) One (1) tumbler shot blaster, identified as SB-2, installed in 1994, equipped with a dust collector BH-2, shot blasting steel, exhausting outside the building, maximum capacity: 882 pounds of metal parts per hour and 6.54 pounds per hour of steel shots.
- (3) One (1) WCRC-4 shot blaster, identified as SB-3, installed in 1994, equipped with a dust collector BH-3, shot blasting steel, exhausting outside the building, maximum capacity: 1557 pounds of metal parts per hour and 8.17 pounds per hour of steel shots.
- (4) One (1) swing table shot blaster, identified as SB-4, installed in 2007, equipped with a dust collector BH-4, shot blasting steel, exhausting outside the building, maximum capacity: 435 pounds per hour of metal parts and 8.99 pound per hour of steel shots .

NOTE: The dust collectors are installed outside the building. There is a tube from each of the shot blaster that connects to respective dust collectors.

(b) Paint Spray Booths:

- (1) One (1) paint booth, identified as PB-1, installed in 1994, equipped with three (3) layers of dry filters, air atomized spray guns and one (1) dip tank, exhausting to three (3) general ventilation wall fans, maximum capacity: 400 metal parts per hour.
- (2) One (1) powder spray booth, identified as PB-2, constructed in 2009, using electrostatic spray gun to apply powder, equipped with cartridge filers, exhausting inside, maximum capacity; 2,500 pounds of parts coated per hour, and using 1.79 pounds of powder per hour.

(c) Welding/Cutting Units:

- (1) Five (5) welding units, identified as W-1 through W-5, installed in 1998, maximum capacity: one hundred (100) metal parts per hour, total.
- (2) Five (5) welding units, identified as W-6 through W-10, installed in 2001, maximum capacity: twenty (20) metal parts per hour, each.
- (3) One (1) cutting unit, identified as C-1, installed in 1994, maximum capacity: twenty-five (25) parts per hour.

(d) Natural Gas-fired space heaters:

- (1) Six (6) natural gas-fired space heaters, identified as S-1 through S-6, installed in 1994, exhausting to Stacks S-1 through S-6, rated at 0.3 million British thermal units per hour, each.
- (2) One (1) natural gas-fired space heater, identified as S-7, installed in 1994, exhausting to Stack S-7, rated at 0.25 million British thermal units per hour.
- (3) One (1) natural gas-fired space heater, identified as S-8, installed in 1994, exhausting to Stack S-8, rated at 0.2 million British thermal units per hour.
- (4) Three (3) natural gas-fired space heaters, identified as S-9 through S-11, installed in 1999, exhausting to Stacks S-9 through S-11, rated at 0.2 million British thermal units per hour, each.
- (5) Two (2) natural gas-fired space heaters, identified as S-12 and S-13, installed in 1999, exhausting to Stacks S-12 and S-13, rated at 0.25 million British thermal units per hour, each.
- (6) One (1) natural gas-fired powder coating curing oven, identified as S-14, constructed in 2009, rated at 0.8 MMBtu/hr.

<b>Unpermitted Emission Units and Pollution Control Equipment</b>
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The following units have been added during this renewal. This change is already incorporated in the emission units and pollution control devices above.

- (1) One (1) swing table shot blaster, identified as SB-4, installed in 2007, equipped with a dust collector BH-4, shot blasting steel, exhausting outside the building, maximum capacity: 435 pounds per hour of metal parts and 8.99 pound per hour of steel shots .

- (2) One (1) powder spray booth, identified as PB-2, constructed in 2009, using electrostatic gun to apply powder, equipped with cartridge filters, exhausting inside, maximum capacity; 2,500 pounds of parts coated per hour, and using 1.79 pounds of powder per hour.
- (3) One (1) natural gas-fired powder coating curing oven, identified as S-14, constructed in 2009, rated at 0.8 MMBtu/hr.

NOTE: The combined potential to emit emissions from powder coating booth PB-2, and the one (1) natural-gas fired curing oven S-14 rated at 0.8 MMBtu/hr are less than 5 tons per year, therefore the addition of these units to the permit is considered a notice-only change pursuant to 326 IAC 2-6.1-6(d)(13).

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

There is no emission unit removed from the source during this renewal.

**Enforcement Issues**

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

As part of this TSD, the potential to emit air pollutants were re-evaluated for shot blast operation (see Emission Calculations and Permit Level Determination – MSOP).

**Emission Calculations**

See Appendix A of this document for detailed emission calculations.

**County Attainment Status**

The source is located in Warren County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Not designated.

<sup>1</sup>Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

Unclassifiable or attainment effective April 5, 2005, for PM<sub>2.5</sub>.

*(Air Pollution Control Board; 326 IAC 1-4-87; filed Dec 26, 2007, 1:43 p.m.: 20080123-IR-326070308FRA)*

(a) Ozone Standards

- (1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, and St. Joseph as attainment for the 8-hour ozone standard.
- (3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock,

Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.

- (4) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Clinton County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM2.5**  
Warren County has been classified as attainment for PM2.5. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM2.5 emissions, and the effective date of these rules was July 15<sup>th</sup>, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.
- (c) **Other Criteria Pollutants**  
Warren 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.

<b>Fugitive Emissions</b>
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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**

The following table reflects the unrestricted emissions of the entire source before controls as listed in Appendix A.

Process/ Emission Unit	Potential To Emit (tons/year)								
	**PM	*PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	Total HAPs	Worst Single HAP
Four (4) Shot Blasters, SB-1, SB-2, SB-3 and SB-4	124.42	12.44	12.44	0.0	0.0	0.0	0.0	1.48	0.1.48 (Mn)
Paint Booth, PB-1	7.30	7.30	7.30	0.0	7.62	0.0	0.0	0.0	3.24 (Xylene)
Powder spray booth, PB-2	2.74	2.74	2.74	0.0	0.0	0.0	0.0	0.0	0.0
Ten (10) Welding units, W-1 through W-10 and one (1) cutting unit C1	1.56	1.56	1.56	0.0	0.0	0.0	0.0	0.0	0.083 (Mn)
(13) Natural gas-space heaters, S-1 through S-13 and one (1) curing oven	0.035	0.138	0.138	0.011	0.1	1.53	1.82	0.0	0.0
<b>Total PTE of Entire Source</b>	<b>136.06</b>	<b>24.18</b>	<b>24.18</b>	<b>0.011</b>	<b>15.34</b>	<b>1.53</b>	<b>1.82</b>	<b>0.0</b>	<b>1.56(Mn)</b>
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	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". US EPA has directed states to regulate PM <sub>10</sub> emissions as surrogate for PM <sub>2.5</sub> emissions.  ** The PTE of PM is less than 250 tons/yr, therefore there is no need to specify the limits. There is no emission factor for PM <sub>2.5</sub> in AP42, PM <sub>10</sub> = PM <sub>2.5</sub>									

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM10, PM2.5 pollutants is still less than 100 tons per year. 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 any single HAP is still 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.
- (c) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-7, fugitive emissions are not counted toward the determination of Part 70 applicability.
- (d) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

### Federal Rule Applicability Determination

#### New Source Performance Standards (NSPS)

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this source.

#### National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (a) This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPS), 40 CFR 63, 11169 Subpart HHHHHH, surface coating or paint stripping and miscellaneous surface coating operations at area source (40CFR Part 63.11169), because this source is not involved in the use of chemical strippers that contain methyl chloride (MeCl) in paint removal process, and the surface coating used at this source do not contain chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd).
- (b) This source is not subject to the requirements 40 CFR 63 Subpart MMMM (National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products) because the source is not a major source for HAPs.
- (c) This source is not subject to the requirements 40 CFR 63 Subpart T (National Emission Standards for Hazardous Air Pollutants for Halogenated Solvent Cleaning) because the source is not equipped with a cleaning machine.
- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPS), 40 CFR Part 63.11514, Subpart XXXXXX (National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories ) are not included in the permit, because this source do not have the potential to emit metals, defined to be the compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd), in the amounts greater than or equal to 0.1 percent by weight (of the metal), and materials that contain manganese in amounts greater than or equal to 1.0 percent by weight (of the metal).
- (e) There are no other new National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed renewal.

#### Compliance Assurance Monitoring (CAM)

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

### State Rule Applicability Determination

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

The total source potential emissions of PM, PM-10, SO<sub>2</sub>, VOC, NO<sub>x</sub>, and CO, are less than 250 tons per year and of Lead is less than 25 tons per year. The source is not one of the 28 listed source categories. There are no applicable New Source Performance Standards that were in effect on August 7, 1980. The source has not conducted any modifications to trigger PSD and is currently considered a minor PSD source. Therefore the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) do not apply.

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

The potential to emit each individual hazardous air pollutant (HAP) is less than 10 tons per year and the

potential to emit any combination of HAPs is less than 25 tons per year. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6.1 (Minor Source Operating Permit)

MSOP applicability is discussed under the Permit Level Determination – MSOP section above.

326 IAC 5-1 (Opacity Limitations)

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

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

326 IAC 2-6 (Emission Reporting)

This source is located in Warren County and the potential to emit of each criteria pollutant is less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

The source is not subject to the requirements of 326 IAC 8-1-6, since each of these facilities emits less than 25 tons per year of VOC.

State Rule Applicability - Shot blasters- SB-1, SB-2, SB-3 and SB-4

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

Pursuant to 326 IAC 6-3-2(Particulate Emission Limitations) this source shall operate the shot blasters so as not to produce, cause, or allow particulate matter to be emitted in excess of the following limits for each process.

- (a) Pursuant to 326 IAC 6-3-2, the particulate (PM) emissions from the one (1) swing table shot blaster (SB-1), shall be limited to 1.50 lbs/hour, when operating at a process weight rate of 443.99 pounds of metal parts per hour.
- (b) Pursuant to 326 IAC 6-3-2, the particulate (PM) emissions from the one (1) tumbler shot blaster (SB-2), shall be limited to 2.38 lbs/hour, when operating at a process weight rate of 888.54 pounds of metal parts per hour.
- (c) Pursuant to 326 IAC 6-3-2, the particulate (PM) emissions from the one (1) WCRC-4 shot blaster (SB-3), shall be limited to 3.47 lbs/hour, when operating at a process weight rate of 1.557 pounds of metal parts per hour.
- (d) Pursuant to 326 IAC 6-3-2, the particulate (PM) emissions from the one (1) swing table shot blaster (SB-4), shall be limited to 1.50 lbs/hour, when operating at a process weight rate of 443.99 pounds of metal parts per hour.

The pounds per hour limitations in sections (a) through (d) were calculated using the equation below.

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

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

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

The respective control systems, dust collectors BH-1, BH-2, BH-3 and BH-4, must be in operation at all times when the blasting operations, SB-1, SB-2, SB-3 and SB-4 are in operation in order to comply with this limit. The Permittee shall operate the control device in accordance with manufacturer's specifications.

State Rule Applicability - Paint spray booth PB-1 with Dip Tank

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

- (a) Pursuant to 326 IAC 6-3-1 (b)(5), the dip tank operation that is part of the one (1) paint booth identified as PB-1 is not subject to the requirements of 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes).
- (b) Pursuant to 326 IAC 6-3-2(d), particulate emissions from the paint shop spray booths PB-1 must be controlled by dry filters, waterwash, or an equivalent control device and the control device must be operated in accordance with manufacturer's specifications. The source shall operate the dry filters in accordance with manufacturer's specifications.

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

- (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.

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

The one (1) paint booth identified as PB-1 was constructed after July 1, 1990 and has actual emissions greater than fifteen (15) pounds of VOC per day. Therefore, one (1) paint booth identified as PB-1 is subject to the requirements of 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations). Pursuant to 326 IAC 8-2-9, the volatile organic compound (VOC) content of coating delivered to the applicators at the one (1) paint booth shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for extreme performance coatings.

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

Based on the MSDS submitted by the source and calculations made, the one (1) paint booth is in compliance with this requirement. The clean up solvent is not subject to the requirements of this rule because the clean up solvent is not used to coat metal.

326 IAC 8-3 (Organic Solvent Degreasing Operations)

The clean up solvent that is used at the one (1) paint booth identified as PB-1 is not subject to the requirements of 326 IAC 8-3 (Organic Solvent Degreasing Operations) because the clean up solvent is not used in conjunction with any type of cleaning machine.

326 IAC 8-6 (Organic Solvent Emission Limitations)

Pursuant to 326 IAC 8-6-1(1), the clean up solvent that is used at the one (1) paint booth identified as PB-1 is not subject to the requirements of 326 IAC 8-6 (Organic Solvent Emission Limitations) because the source is located in Warren County and potential VOC emissions from the clean up solvent are less than one hundred (100) tons per year.

326 IAC 20-6-1 (Halogenated Solvent Cleaning)

This source is not subject to the requirements of the 326 IAC 20-6-1, since the degreasing operations do not use a solvent that contains any of the halogenated compounds listed in 326 IAC 20-6-1(a).

Powder Spray Booth PB-2:

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

The particulate matter (PM) from the powder spray booth, identified as PB-2 shall be limited to less than 4.76 pounds per hour, when operating at a process weight rate of 1.25 tons per hour, consisting of 2,500 pounds of metal parts per hour and 1.79 pounds of powder per hour.

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

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

The uncontrolled potential emissions are less than the allowable, therefore the cartridge filter is not necessary to operate in order to comply with this limit.

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

The powder coating booths are not subject to 326 IAC 8-2-9 since the powder coating booths have no potential to emit VOC. No other article 8 rules apply.

State Rule Applicability - Natural Gas space heaters

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

The natural gas-fired space heaters, units are each not subject to 326 IAC 6-2 as they are not sources of indirect heating.

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

Pursuant to 326 IAC 6-3-1(b)(14), the source-wide space heaters are not subject to the requirements of 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) because they have the combined potential to emit particulate matter less than 0.551 pounds per hour.

326 IAC 7-1 (Sulfur dioxide emission limitations: applicability)

The space heaters are not subject to the requirements of 326 IAC 7-1, because the potential and the actual emissions of sulfur dioxide are less than twenty-five (25) tons per year and ten (10) pounds per hour respectively.

State Rule Applicability - Welding and Cutting operation

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

- (a) Pursuant to 326 IAC 6-3-1(b)(9), the ten (10) welding stations, identified as W-1 through W-10, are each exempt from the requirements of 326 IAC 6-3, because the potential to consume welding wire is less than six hundred twenty-five (625) pounds per day each.
- (b) Pursuant to 326 IAC 6-3-1(b)(14), the source-wide welding operations are not subject to the requirements of 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) because they have the combined potential to emit particulate matter less than 0.551 pounds per hour.
- (c) Pursuant to 326 IAC 6-3-1(b)(10), the one (1) cutting unit is not subject to the requirements of 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) because less than 3,400 inches of stock one (1) inch thickness is cut per hour.

**Compliance Determination, Monitoring and Testing Requirements**

The Compliance monitoring requirements applicable to the emission facilities are as follows:

- (a) These monitoring conditions are necessary because the dust collectors for the swing table shot blasters, tumbler shot blaster and WCRC-4 shot blaster must operate properly to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) and 326 2-6.1 (MSOP). The Compliance monitoring requirements applicable to shot blaster units SB-1, SB-2, SB-3 and SB-4:

Units / Control	Parameter	Frequency	Range	Excursions and Exceedances
Shot blasters SB-1, SB-2, SB-3 and SB-4 /dust collectors(BH-1, BH-2, BH-3 and BH-4)	Water Pressure Drop	Daily	1.5 to 3 inches	Response Steps
	Visible Emissions		Normal-Abnormal	

- (b) Broken or Failed Bag Detection  
 The Permittee shall maintain the baghouse and replace broken or failed bags as needed.
- (c) Testing is not required on filters BH-1, BH-2, BH-3 and BH-4 because compliance will be demonstrated through proper operation and parametric monitoring of the dust collectors.
- (d) IDEM has determined that compliance with the VOC content limits in 326 IAC 8 can be established by using the data contained in the relevant MSDS and through calculations performed by the Permittee. The compliance determination and monitoring requirements for the paint booths applicable are as follows:
  - (1) Compliance shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer copies of "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.
  - (2) Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

No stack test is required for this source because compliance with the MSOP limit for VOC can be determined by evaluating MSDSs and keeping records of the amount of VOC applied. The use of dry filters ensures compliance with 326 IAC 2-6.1-5 (MSOP) and 326 IAC 6-3 (Process Operations). The compliance monitoring requirements included in the permit should ensure compliance with these rules.

**Conclusion and Recommendation**

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 March 18, 2009, and additional information received on April 16, 2009, April 29, 2009 and May 6, 2009.

The continued operation of this source shall be subject to the conditions of the attached proposed MSOP No. 171-27638-00012. The staff recommends to the Commissioner that this MSOP be approved.

**IDEM Contact**

- (a) Questions regarding this proposed permit can be directed to Swarna Prabha 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-

5376 or toll free at 1-800-451-6027 extension 4-5376.

- (b) A copy of the findings is available on the Internet at: [www.in.gov/idem/ai/appfiles/idem-caats/](http://www.in.gov/idem/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: Emissions Calculations  
Summary from Entire Source**

**Company Name: TMF Center, Inc.  
Address City IN Zip: 300 West Washington Street, Williamsport, Indiana 47993  
Permit Number: MSOP 171-27638-00012  
Permit Reviewer: Swarna Prabha**

**Uncontrolled Emissions (tons per year)**

Facility	PM	PM10	PM2.5	SO2	NOx	VOC	CO
Shot Blasters (SB-1, SB-2, SB-3, SB-4)	124.42	12.44	12.4	0.00	0.00	0.00	0.00
Paint Booth (PB-1)	7.30	7.30	7.30	0.00	0.00	7.62	0.00
Powder Spray Booth (PB-2)	2.74	2.74	2.74	0.00	0.00	7.62	0.00
Welding, Cutting (W1-W10), (C-1)	1.56	1.56	1.56	0.00	0.00	0.00	0.00
Space Heaters (S-1 through S-14)	0.03	0.14	0.14	0.01	1.82	0.100	1.53
<b>Total</b>	<b>136.06</b>	<b>24.18</b>	<b>24.18</b>	<b>0.011</b>	<b>1.82</b>	<b>15.34</b>	<b>1.53</b>

**Controlled Emissions (tons per year)**

Facility	PM	PM10	PM2.5	SO2	NOx	VOC	CO
Shot Blasters (SB-1, SB-2, SB-3, SB-4)	1.24	0.12	0.12	0.00	0.00	0.00	0.00
Paint Booth (PB-1)	0.02	0.02	0.02	0.00	0.00	7.62	0.00
Powder Spray Booth (PB-2)	0.14	0.14	0.14	0.00	0.00	7.62	0.00
Welding, Cutting (W1-W10), (C-1)	1.56	1.56	1.56	0.00	0.00	0.00	0.00
Space Heaters (S-1 through S-14)	0.03	0.14	0.14	0.01	1.82	0.100	1.53
<b>Total</b>	<b>3.00</b>	<b>1.98</b>	<b>1.98</b>	<b>0.011</b>	<b>1.82</b>	<b>15.34</b>	<b>1.53</b>

**HAPs Emissions (tons per year)**

Facility	Xylene	Toluene	Ethyl Benzene	MIBK	MEK	Ethylene Glycol
Shot Blasters (SB-1, SB-2, SB-3, SB-4)	0.00	0.00	0.00	0.00	0.00	0.00
Paint Booth (PB-1)	3.24	0.433	0.572	0.097	0.017	0.262
Powder Spray Booth (PB-2)	0.00	0.00	0.00	0.00	0.00	0.00
Welding, Cutting (W1-W10), (C-1)	0.00	0.00	0.00	0.00	0.00	0.00
Space Heaters (S-1 through S-14)	0.00	0.00005	0.00	0.00	0.00	0.00
<b>Total</b>	<b>3.24</b>	<b>0.433</b>	<b>0.572</b>	<b>0.097</b>	<b>0.017</b>	<b>0.262</b>

Facility	Cadmium	Manganese	Benzene	Dichlorobenzene	Formaldehyde
Shot Blasters (SB-1, SB-2, SB-3, SB-4)	0.00	1.49	0.00	0.00	0.00
Paint Booth (PB-1)	0.00	0.00	0.00	0.00	0.00
Welding / Cutting	0.00	0.083	0.00	0.00	0.00
Space Heaters	0.00002	0.00001	0.00003	0.00002	0.001
<b>Total</b>	<b>0.00002</b>	<b>1.576</b>	<b>0.00003</b>	<b>0.00002</b>	<b>0.001</b>

Facility	Hexane	Chromium	Lead	Nickel	Total
Shot Blasters (SB-1, SB-2, SB-3, SB-4)	0.00	0.00	0.00	0.00	1.49
Paint Booth (PB-1)	0.00	0.00	0.00	0.00	0.00
Powder Spray Booth (PB-2)	0.00	0.00	0.00	0.00	0.00
Welding, Cutting (W1-W10), (C-1)	0.00	0.00	0.00	0.00	0.083
Space Heaters (S-1 through S-14)	0.026	0.00002	0.00001	0.00003	0.028
<b>Total</b>	<b>0.026</b>	<b>0.00002</b>	<b>0.00001</b>	<b>0.00003</b>	<b>1.60</b>

1. On May 8, 2008 U. S. EPA promulgated the new requirements for Prevention Of Significant Deterioration (PSD) for PM2.5 emissions, and the effective date of these rules was July 15th, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC2-2, to include those requirements. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM2.5 Emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 .
2. There is no PM2.5 emission in AP42, PM10 = PM2.5
3. Total emissions are based on rated capacity at 8,760 hours/year, after enforceable control and limits.

**Appendix A: Emission Calculations  
Potential Particulate Process Emissions  
Abrasive Blasting Operations - Confined**

**Company Name: TMF Center, Inc.  
Address City IN Zip: 300 West Washington Street, Williamsport, Indiana 47993  
Permit Number: MSOP 171-27638-00012  
Reviewer: Swarna Prabha**

**PM/PM10 PTE**

Process/Control	Steel Throughput Rate (tons/hr)	Pollutant	Emission Factor (lb/ton produced)	Uncontrolled Emissions (ton/yr)	control type	Control Efficiency (%)	Controlled Emissions (ton/yr)	Controlled Emissions (lbs/hr)
SB-1/ BH-1	0.222	PM	17.00	16.53	Dust collectors	99.0%	0.17	0.04
		PM-10 *	1.70	1.65			0.02	0.00
SB-2/ BH-2	0.444	PM	17.00	33.06	Dust collectors	99.0%	0.33	0.08
		PM-10 *	1.70	3.31			0.03	0.01
SB-3/ BH-3	0.783	PM	17.00	58.30	Dust collectors	99.0%	0.58	0.13
		PM-10 *	1.70	5.83			0.06	0.01
SB-4/ BH-4	0.222	PM	17.00	16.53	Dust collectors	99.0%	0.17	0.04
		PM-10 *	1.70	1.65			0.02	0.00
<b>Total</b>		<b>PM</b>		<b>124.42</b>			<b>1.24</b>	
		<b>PM10</b>		<b>12.44</b>			<b>0.12</b>	

**Metal HAPs PTE**

Process	** Total Uncontrolled Potential Particulate (PM) (tons/yr)	Weight % Manganese Compounds	Manganese Compounds Emissions (ton/yr)	Control Efficiency (%)	Controlled Emissions (ton/yr)
SB-1, SB-2, SB-3 and SB-4	124.42	1.20%	1.49	99.00%	0.01

**326 IAC 6-3-2(e) Allowable Rate of Emissions**

Unit ID	Process Rate (lbs/hr)	Process Weight Rate (tons/hr)	Allowable Emissions (lbs/hr)
SB-1	443.99	0.22	1.50
SB-2	888.54	0.44	2.38
SB-3	1557	0.78	3.47
SB-4	443.99	0.22	1.50

**Notes**

\*It is assumed that PM2.5 emissions = PM10 emissions  
Total emissions based on rated capacity at 8,760 hours/year.

TMF operates 2080 hours per year/ shift, and three shifts per year = 2080\*3 = 6240 hrs./year

\*\* Potential Particulate (PM) Process Emissions from the Abrasive Blasting Operations

Metal HAPS, including Cadmium, Chromium, Lead, Manganese and Nickel, are particulate in nature and can be controlled using a control device.

Source cleans and finishes the metal steel part to be used in heavy industrial machinery.

Particulate Emission factors from USEPA's Factor Information Retrieval Data System, version 6.25 (SCC# 3-04-003-40)

represent the realistic emission factors from the "grinding and cleaning" operation based on process throughput.

Please also refer to table 12.10-07 in AP-42 " Compilation of Emission Factors"

**Methodology**

Emissions factors from USEPA's Factor Information Retrieval Data System, version 6.25 (SCC# 3-04-003-40)

Uncontrolled Emissions (ton/yr) = Rate (tons/hr) \* Emission Factor (lb/ton produced) \*8760 (hrs/yr) \* (1ton/2000lbs)

Controlled Emissions (ton/yr) = Uncontrolled Emissions (ton/yr) \* (1 - Control Efficiency (%))

Allowable Emissions = 4.10(Process Weight Rate)^0.67

**Appendix A: Federal Potential Emissions Calculations  
VOC and Particulate  
Paint Booth**

**Company Name: TMF Center, Inc.  
Address City IN Zip: 300 West Washington Street, Williamsport, Indiana 47993  
Permit Number: MSOP 171-27638-00012  
Reviewer: Swarna Prabha**

Material	Density (lb/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Material (gal/unit)	Maximum (unit/hour)	Flash-off (fraction)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC (lbs/hr)	Potential VOC (lbs/day)	Potential VOC (tons/yr)	Particulate Potential (tons/yr)	VOC solids (lbs/gal)	Transfer Efficiency	Material Substrate
<b>PB-1</b>																		
B59-400 High Heat Black	11.1	29.7%	0.00%	29.7%	0.00%	54.0%	0.00005	400	1.00	3.30	3.30	0.066	1.58	0.289	0.342	6.11	50.0%	Metal
F85RC3 Red Top Coat	8.10	42.0%	0.00%	42.0%	0.00%	51.1%	0.00004	400	1.00	3.40	3.40	0.054	1.31	0.238	0.00	6.66	100%	Metal
Z039625 Urethane Catalyst B	9.42	10.0%	0.00%	10.0%	0.00%	87.7%	0.00018	400	1.00	0.942	0.942	0.068	1.63	0.297	1.34	1.07	50.0%	Metal
AXY0224 Polyurethane Primer	12.68	27.5%	0.00%	27.5%	0.00%	48.5%	0.00074	400	1.00	3.49	3.49	1.03	24.8	4.52	5.96	7.19	50.0%	Metal
<b>Ready to Spray R-T-S</b>	<b>12.0</b>	<b>24.8%</b>	<b>0.00%</b>	<b>24.8%</b>	<b>0.00%</b>	<b>56.2%</b>	<b>0.0009</b>	<b>400</b>	<b>1.00</b>	<b>2.99</b>	<b>2.99</b>	<b>1.10</b>	<b>26.4</b>	<b>4.82</b>	<b>7.30</b>	<b>5.32</b>	<b>50.0%</b>	<b>Metal</b>
W40348 Yellow Dip Primer	10.7	53.0%	35.5%	17.5%	0.00%	29.7%	0.00028	400	1.00	1.87	1.87	0.210	5.03	0.919	0.00	6.30	100%	Metal
Water	8.34	100%	100%	0.00%	100%	0.00%	0.00007	400	1.00	N/A	0.00	0.00	0.00	0.00	0.00	N/A	100%	Metal
<b>Ready to Dip R-T-D</b>	<b>10.2</b>	<b>60.7%</b>	<b>46.0%</b>	<b>14.6%</b>	<b>20.0%</b>	<b>23.8%</b>	<b>0.0004</b>	<b>400</b>	<b>1.00</b>	<b>1.87</b>	<b>1.50</b>	<b>0.210</b>	<b>5.03</b>	<b>0.919</b>	<b>0.00</b>	<b>6.30</b>	<b>100%</b>	<b>Metal</b>
F63B60 Polyurethane Black	8.09	34.4%	0.00%	34.4%	0.00%	59.1%	0.00009	400	1.00	2.78	2.78	0.100	2.40	0.439	0.00	4.71	100%	Metal
Xylene	7.26	100%	0.00%	100%	0.00%	0.00%	0.00001	400	1.00	7.26	7.26	0.029	0.697	0.127	0.00	N/A	100%	Metal
<b>Ready to Dip R-T-D</b>	<b>8.01</b>	<b>40.3%</b>	<b>0.00%</b>	<b>40.3%</b>	<b>0.00%</b>	<b>53.2%</b>	<b>0.0001</b>	<b>400</b>	<b>1.00</b>	<b>3.23</b>	<b>3.23</b>	<b>0.129</b>	<b>3.10</b>	<b>0.566</b>	<b>0.00</b>	<b>6.07</b>	<b>100%</b>	<b>Metal</b>
F63YC23 Caterpillar Yellow	9.80	27.5%	0.00%	27.5%	0.00%	60.5%	0.00063	400	1.00	2.70	2.70	0.679	16.3	2.97	3.92	4.45	50.0%	Metal
Xylene	7.26	100%	0.00%	100%	0.00%	0.00%	0.00008	400	1.00	7.26	7.26	0.232	5.58	1.02	0.00	N/A	50.0%	Metal
<b>Ready to Spray R-T-S</b>	<b>9.51</b>	<b>33.7%</b>	<b>0.00%</b>	<b>33.7%</b>	<b>0.00%</b>	<b>53.7%</b>	<b>0.0007</b>	<b>400</b>	<b>1.00</b>	<b>3.21</b>	<b>3.21</b>	<b>0.911</b>	<b>21.9</b>	<b>3.99</b>	<b>3.92</b>	<b>5.98</b>	<b>50.0%</b>	<b>Metal</b>
Xylene (Clean-up)	7.26	100%	0.00%	100%	0.00%	0.00%	0.00022	400	1.00	7.26	7.26	0.639	15.3	2.80	0.00	N/A	50.0%	Spray Guns

**Potential Emissions Based on Worst Case Coating and Clean-up Solvent**

<b>Control Efficiency</b>	<b>99.7%</b>	<b>Uncontrolled</b>	<b>1.74</b>	<b>41.7</b>	<b>7.62</b>	<b>7.30</b>
		<b>Controlled</b>	<b>1.74</b>	<b>41.7</b>	<b>7.62</b>	<b>0.022</b>

**METHODOLOGY**

RTS Density (lbs/gal) = ((Da\*Va)+(Db\*Vb))/(Va+Vb)

RTS Weight % H2O + Organics = ((Wa\*Da\*Va)+(Wb\*Db\*Vb))/((Da\*Va)+(Db\*Vb))

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) \* Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Coating = (Density (lb/gal) \* Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr) \* Flash-off

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr) \* (24 hr/day) \* Flash-off

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) \* Gal of Material (gal/unit) \* Maximum (units/hr) \* (8760 hr/yr) \* (1 ton/2000 lbs) \* Flash-off

Uncontrolled Particulate Potential Tons per Year = (units/hour) \* (gal/unit) \* (lbs/gal) \* (1 - Weight % Volatiles) \* (1-Transfer efficiency) \*(8760 hrs/yr) \*(1 ton/2000 lbs)

Controlled Particulate Potential Tons per Year = Uncontrolled Particulate Potential Tons per Year x (1 - Control Efficiency)

Pounds VOC per Gallon of Solids = (Density (lbs/gal) \* Weight % organics) / (Volume % solids) \* Flash-off

Total = Worst Coating + Sum of all solvents used

**Appendix A: Emission Calculations  
HAP Emission Calculations - Paint Booth**

**Company Name: TMF Center, Inc.  
Address City IN Zip: 300 West Washington Street, Williamsport, Indiana 47993  
Permit Number: MSOP 171-27638-00012  
Reviewer: Swarna Prabha**

Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Ethyl Benzene	Weight % MIBK	Weight % MEK	Weight % Ethylene Glycol	Weight % Glycol Ethers	Xylene Emissions (ton/yr)	Toluene Emissions (ton/yr)	Ethyl Benzene Emissions (ton/yr)	MIBK Emissions (ton/yr)	MEK Emissions (ton/yr)	Ethylene Glycol Emissions (ton/yr)	Glycol Ethers Emissions (ton/yr)
<b>PB-1</b>																	
B59-400 High Heat Black	11.1	0.00005	400	0.00%	24.0%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.233	0.00	0.00	0.00	0.00	0.00
F85RC3 Red Top Coat	8.10	0.00004	400	0.00%	0.00%	0.00%	17.0%	3.00%	0.00%	0.00%	0.00	0.00	0.00	0.097	0.017	0.00	0.00
Z039625 Urethane Catalyst B	9.42	0.00018	400	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AXY0224 Polyurethane Primer	12.68	0.00074	400	0.00%	0.00%	0.200%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.033	0.00	0.00	0.00	0.00
W40348 Yellow Dip Primer	10.7	0.00028	400	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	5.00%	0.00	0.00	0.00	0.00	0.00	0.262	0.262
Water	8.34	0.00007	400	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F63B60 Polyurethane Black	8.09	0.00009	400	0.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.051	0.00	0.00	0.00	0.00	0.00
Xylene	7.26	0.00001	400	85.0%	0.00%	15.0%	0.00%	0.00%	0.00%	0.00%	0.108	0.00	0.019	0.00	0.00	0.00	0.00
F63YC23 Caterpillar Yellow	9.80	0.00063	400	0.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.433	0.00	0.00	0.00	0.00	0.00
Xylene	7.26	0.00008	400	85.0%	0.00%	15.0%	0.00%	0.00%	0.00%	0.00%	0.865	0.00	0.153	0.00	0.00	0.00	0.00
Xylene (Clean-up)	7.26	0.00022	400	85.0%	0.00%	15.0%	0.00%	0.00%	0.00%	0.00%	2.38	0.00	0.420	0.00	0.00	0.00	0.00

Potential Emissions Based on Worst Case Coating and Clean-up Solvent

**3.24      0.433      0.572      0.097      0.017      0.262      0.262**

**METHODOLOGY**

HAPS emission rate (tons/yr) = Density (lb/gal) \* Gal of Material (gal/unit) \* Maximum (unit/hr) \* Weight % HAP \* 8760 hrs/yr \* 1 ton/2000 lbs

**Appendix A: Emission Calculations  
Powder Spray Booth (PB-2)**

**Company Name: TMF Center, Inc.  
Address City IN Zip: 300 West Washington Street, Williamsport, Indiana 47993  
MSOP Permit NO.: 171-27638-00012  
Reviewer: Swarna Prabha**

Emission Unit	Maximum Powder Usage (lbs/hr)	Maximum Powder Usage (tons/yr)	Transfer Efficiency (%)	Cartridge filter Efficiency	PTE before cartridge filters PM, PM <sub>10</sub> each (lbs/hr)	PTE before cartridge filter PM, PM <sub>10</sub> each (tons/yr)	PTE after Cartridge filter PM, PM <sub>10</sub> each (lbs/hr)	PTE after Cartridge filter PM, PM <sub>10</sub> each (tons/yr)	PM/PM <sub>10</sub> Allowable PM lbs/hr
Powder Spray Booth (PB-2)	1.790	7.840	65.0%	95.0%	0.63	2.7	0.031	0.14	4.76
<b>Total</b>					<b>0.63</b>	<b>2.7</b>	<b>0.031</b>	<b>0.14</b>	

The transfer efficiency is based on electrostatic-airless gun for table leg type coated surfaces  
 Maximum Weight of the material coated per hour = 2,500 pounds/hr  
 The maximum process throughput = (2,500 +1.79) pounds per hour =2,501.79 pounds per hour  
 There is no emission factor in AP42 for PM2.5, PM10 = PM2.5

**Methodology**

Potential Emissions (lbs/hr) = Powder usage rate \* (1- transfer efficiency)  
 Emissions (tons/yr) = Potential Emissions (lbs/hr) \* 8760 hrs/yr / 2000 lbs/ton  
 PM10 emissions are assumed to equal PM.

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

**Company Name: TMF Center, Inc.  
Address City IN Zip: 300 West Washington Street  
Permit Number: MSOP 171-27638-00012  
Reviewer: Swarna Prabha**

Heat Input Capacity  
MMBtu/hr

4.15

Potential Throughput  
MMCF/yr

36.4

Six (6) natural gas-fired space heaters rated at 0.3 MMBtu/hr, each.  
Three (3) natural gas-fired space heaters rated at 0.25 MMBtu/hr, each.  
Four (4) natural gas-fired space heaters rated at 0.2 MMBtu/hr, each.  
One (1) natural gas-fired curing oven reated at 0.8 MMBtu/hr

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100 **see below	5.50	84.0
Potential Emission in tons/yr	0.035	0.138	0.011	1.82	0.100	1.53

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

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu  
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 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton  
See page 6 for HAPs emissions calculations.

**HAPs Emissions**

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	0.002	0.001	0.075	1.80	0.003
Potential Emission in tons/yr	0.00004	0.00002	0.001	0.033	0.00006

Emission Factor in lb/MMcf	HAPs - Metals					Total
	Lead	Cadmium	Chromium	Manganese	Nickel	
	0.001	0.001	0.001	0.0004	0.002	
Potential Emission in tons/yr	0.00001	0.00002	0.00003	0.00001	0.00004	<b>0.034</b>

Methodology is the same as page 5.

The five highest organic and metal HAPs emission factors are provided above.  
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emissions Calculations  
Welding and Thermal Cutting**

**Company Name: TMF Center, Inc.  
Address City IN Zip: 300 West Washington Street, Williamsport, Indiana 47993  
Permit Number: MSOP 171-27638-00012  
Reviewer: Swarna Prabha**

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)		EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING/Cutting												
Metal Inert Gas (MIG)(carbon steel)	5.00	6.40		0.0055	0.0005			0.176	0.016	0.00	0.00	0.016
Metal Inert Gas (MIG)(carbon steel)	5.00	1.20		0.0055	0.0005			0.033	0.003	0.00	0.00	0.003
FLAME CUTTING	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)**				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Oxymethane	1.00	2.50	12.0	0.0815	0.0002		0.0002	0.147	0.00	0.00	0.00	0.00
<b>EMISSION TOTALS</b>												
Potential Emissions lbs/hr								0.356	0.019	0.00	0.00	0.019
Potential Emissions lbs/day								8.54	0.457	0.00	0.00	0.457
Potential Emissions tons/year								1.56	0.083	0.00	0.00	0.083

**METHODOLOGY**

\*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

\*\*Emission Factor for plasma cutting from American Welding Society (AWS). Trials reported for wet cutting of 8 mm thick mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted). Therefore, the emission factor for plasma cutting is for 8 mm thick rather than 1 inch, and the maximum metal thickness is not used in calculating the emissions.

Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0039 lb/1,000 in. cut, 8 mm thick

Plasma cutting emissions, lb/hr: (# of stations)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 8 mm thick)

Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" thick)

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs.



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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

*Thomas W. Easterly*  
**Commissioner**

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

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

TO: Lori Van Meter  
TMF Ctr, Inc.  
300 W Washington Street  
Williamsport, IN 47993

DATE: September 28, 2009

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

SUBJECT: Final Decision  
MSOP  
171-27638-00012

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:  
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

September 28, 2009

TO: Williamsport Washington Twp Public Library

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

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

**Applicant Name: TMF Ctr, Inc.**  
**Permit Number: 171-27638-00012**

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	CDENNY 9/28/2009 TMF Ctr. Inc 171-27638-00012 (final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	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		

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		Lori Van Meter TMF Ctr, Inc 300 W Washington St. Williamsport IN 47993 (Source CAATS) <b>VIA CONFIRMED DELIVERY</b>										
2		Fountain-Warren County Health Department Fountain-Warren County Health Department 210 S. Perry St Attica IN 47918-1352 ( <i>Health Department</i> )										
3		Williamsport Washington Twp Public Library 9 Fall St Williamsport IN 47993-1299 ( <i>Library</i> )										
4		Williamsport Town Council 29 Monroe St. Williamsport IN 47993 ( <i>Local Official</i> )										
5		Warren County Commissioner 31 North Monroe Street Williamsport IN 47993 ( <i>Local Official</i> )										
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4			