



Joseph E. Kernan  
Governor

Lori F. Kaplan  
Commissioner

July 21, 2004

100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
www.in.gov/idem

TO: Interested Parties / Applicant

RE: TMF Center, Inc / 171-18498-00012

FROM: Paul Dubenetzky  
Chief, Permits Branch  
Office of Air Quality

### Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FNPER.dot 9/16/03



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## MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY

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

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units 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 2-5.1 if new source), 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

|   |  |
|---|--|
| Operation Permit No.: MSOP 171-18498-00012  |  |
| Issued by: Original Signed by<br>Paul Dubenetzky, Branch Chief<br>Office of Air Quality | Issuance Date: July 21, 2004<br><br>Expiration Date: July 21, 2009 |

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**Compliance Determination Requirements**

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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 metal construction machinery source.

|                         |   |
|-------------------------|---|
| Authorized Individual:  | Lloyd McGowen   |
| Source Address:         | 300 West Washington Street, Williamsport, Indiana 47993   |
| Mailing Address:        | 300 West Washington Street, Williamsport, Indiana 47993   |
| General Source Phone:   | 765-762-1000  |
| SIC Code:               | 3531  |
| County Location:        | Warren  |
| Source Location Status: | Attainment for all criteria pollutants  |
| Source Status:          | Minor Source Operating Permit<br>Minor Source, under PSD Rules;<br>Minor Source, Section 112 of the Clean Air Act |

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

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This stationary source is approved to operate the following emissions units and pollution control devices:

- (a) One (1) swing table shot blaster, identified as SB-1, installed in 1994, equipped with a baghouse BH-1, exhausting inside the building, capacity: 252 metal parts per hour or 2,063 pounds of metal parts per hour.
- (b) One (1) tumbler shot blaster, identified as SB-2, installed in 1994, equipped with a baghouse BH-2, exhausting inside the building, capacity: 246 metal parts per hour or 2,000 pounds of metal parts per hour.
- (c) One (1) WCRC-4 shot blaster, identified as SB-3, installed in 1994, equipped with internal filters, exhausting inside the building, capacity: 252 metal parts per hour or 2,063 pounds of metal parts per hour.
- (d) 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, capacity: 400 metal parts per hour.
- (e) Five (5) welding units, identified as W-1 through W-5, installed in 1998, capacity: one hundred (100) metal parts per hour, total.
- (f) One (1) cutting unit, identified as C-1, installed in 1994, capacity: twenty-five (25) parts per hour.
- (g) 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.

- (h) 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.
- (i) 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.
- (j) 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.
- (k) 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.
- (l) Five (5) welding units, identified as W-6 through W-10, installed in 2001, capacity: twenty (20) metal parts per hour, each.

## **SECTION B GENERAL CONDITIONS**

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

### **B.1 Permit No Defense [IC 13]**

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

### **B.2 Definitions**

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

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

### **B.4 Permit Term and Renewal [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5]**

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions of this permit do not affect the expiration date.

The Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

### **B.5 Modification to Permit [326 IAC 2]**

All requirements and conditions of this operating permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

### **B.6 Annual Notification [326 IAC 2-6.1-5(a)(5)]**

- (a) Annual notification shall be submitted 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) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

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

- (d) 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.7 Preventive Maintenance Plan [326 IAC 1-6-3]

- (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) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.8 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

- (a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1.
- (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)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a non-road engine, as defined in 40 CFR 89.2.

**B.9 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)] [IC 13-14-2-2] [IC13-17-3-2] [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 this title or the conditions of this permit or any operating permit revisions;
- (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 processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;
- (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.10 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]**

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Pursuant to [326 IAC 2-6.1-6(d)(3)]:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM, OAQ, shall issue a revised permit.

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

**B.11 Annual Fee Payment [326 IAC 2-1.1-7]**

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- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, I/M & Billing Section), to determine the appropriate permit fee.

## SECTION C

## SOURCE OPERATION CONDITIONS

|               |
|---------------|
| Entire Source |
|---------------|

**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 non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

**C.5 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]**

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of

326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

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 2-7-1(34).

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

requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

## Testing Requirements

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

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- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

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

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by the 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.7 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

### C.8 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.9 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.10 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)]  
[326 IAC 2-7-6(1)]

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- (a) Whenever a condition in this permit requires the measurement of total static pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( 2%) of full scale reading.
- (b) Whenever a condition in this permit requires the measurement of a (temperature or flow rate), the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( 2%) of full scale reading.
- (c) The Preventive Maintenance Plan for the pH meter shall include calibration using known standards. The frequency of calibration shall be adjusted such that the typical error found at calibration is less than one pH point.
- (d) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

**Record Keeping and Reporting Requirements**

C.11 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.12 General Record Keeping Requirements [326 IAC 2-6.1-5]

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- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are

available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented when operation begins.

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

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

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

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be 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, any report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

## SECTION D.1 EMISSIONS UNITS OPERATION CONDITIONS

### Emissions Unit Description: Shot Blasting

- (a) One (1) swing table shot blaster, identified as SB-1, installed in 1994, equipped with a baghouse BH-1, exhausting inside the building, capacity: 252 metal parts per hour or 2,063 pounds of metal parts per hour.
- (b) One (1) tumbler shot blaster, identified as SB-2, installed in 1994, equipped with a baghouse BH-2, exhausting inside the building, capacity: 246 metal parts per hour or 2,000 pounds of metal parts per hour.
- (c) One (1) WCRC-4 shot blaster, identified as SB-3, installed in 1994, equipped with internal filters, exhausting inside the building, capacity: 252 metal parts per hour or 2,063 pounds of metal parts per hour.

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

### Emission Limitations and Standards

#### D.1.1 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the one (1) swing table shot blaster, identified as SB-1, shall not exceed 4.19 pounds per hour when operating at a process weight rate of 2,063 pounds per hour.

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

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

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

- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the one (1) one (1) tumbler shot blaster, identified as SB-2, shall not exceed 4.10 pounds per hour when operating at a process weight rate of 2,000 pounds per hour.

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

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

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

- (c) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the one (1) WCRC-4 shot blaster, identified as SB-3, shall not exceed 4.19 pounds per hour when operating at a process weight rate of 2,063 pounds per hour.

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

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

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

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

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

### Compliance Determination Requirements

#### D.1.3 Particulate Control

---

Pursuant to CP 171-10420-00012, issued on May 11, 1999, and in order to comply with Condition D.1.1, the baghouses and internal filters for particulate control shall be in operation and control emissions from the three (3) shot blasters at all times that these facilities are in operation.

### Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

#### D.1.4 Baghouse Inspections

---

An inspection shall be performed each calendar quarter of all bags controlling SB-1 and SB-2 when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

#### D.1.5 Broken or Failed Bag Detection

---

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation and Implementation shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 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.
- (b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.

## **Record Keeping and Reporting Requirement [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]**

### **D.1.6 Record Keeping Requirements**

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- (a) To document compliance with Condition D.1.4, the Permittee shall maintain records of the results of the inspections required under Condition D.1.4.
- (b) To document compliance with Condition D.1.2, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

## SECTION D.2

## EMISSIONS UNITS OPERATION CONDITIONS

### Emissions Unit Description: Paint Booth

- (d) 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, capacity: 400 metal parts per hour.

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

### Emission Limitations and Standards

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

- (a) Particulate from the one (1) paint booth, identified as PB-1, shall be controlled by dry 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 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9, the owner or operator shall not allow the discharge into the atmosphere VOC in excess three and five-tenths (3.5), for extreme performance, excluding water, as delivered to the applicator.

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

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

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

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

### Compliance Determination Requirements

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

Compliance with the VOC content limit contained in Condition D.2.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the

copies of the “as supplied” and “as applied” VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

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

**D.2.6 Record Keeping Requirements**

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- (a) To document compliance with Condition D.2.2, the Permittee shall maintain records of the VOC content of each coating material and solvent used less water. Records maintained shall be taken as stated and shall be complete and sufficient to establish compliance with the VOC content limit established in Condition D.2.2.
  
- (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**

- (e) Five (5) welding units, identified as W-1 through W-5, installed in 1998, capacity: one hundred (100) metal parts per hour, total.
- (f) One (1) cutting unit, identified as C-1, installed in 1994, capacity: twenty-five (25) parts per hour.
- (g) 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.
- (h) 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.
- (i) 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.
- (j) 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.
- (k) 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.
- (l) Five (5) welding units, identified as W-6 through W-10, installed in 2001, capacity: twenty (20) metal parts per hour, each.

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

There are no applicable rules for these facilities.

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

**MINOR SOURCE OPERATING PERMIT  
ANNUAL NOTIFICATION**

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

|                      |                                   |
|----------------------|-----------------------------------|
| <b>Company Name:</b> | <b>TMF Center, Inc.</b>           |
| <b>Address:</b>      | <b>300 West Washington Street</b> |
| <b>City:</b>         | <b>Williamsport, Indiana</b>      |
| <b>Phone #:</b>      | <b>765-762-1000</b>               |
| <b>MSOP #:</b>       | <b>171-18498-00012</b>            |

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 171-18498-00012.  
 not in compliance with the requirements of MSOP 171-18498-00012.

|                                       |
|---------------------------------------|
| <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 - 317 233-5967**

**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 ?\_\_\_\_\_, 100TONS/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 PERM 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: \_\_\_\_/\_\_\_\_/19\_\_\_\_ AM / PM

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

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE \_\_\_\_/\_\_\_\_/19\_\_\_\_ AM/PM

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

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

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

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

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

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

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

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

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

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

\*SEE PAGE 2

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

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

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

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

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

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

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

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

Technical Support Document (TSD) for a Minor Source Operating Permit

**Source Background and Description**

|                              |  |
|------------------------------|--|
| <b>Source Name:</b>          | <b>TMF Center, Inc.</b>  |
| <b>Source Location:</b>      | <b>300 West Washington Street, Williamsport, Indiana 47993</b> |
| <b>County:</b>               | <b>Warren</b>  |
| <b>SIC Code:</b>             | <b>3531</b>  |
| <b>Operation Permit No.:</b> | <b>171-18498-00012</b>   |
| <b>Permit Reviewer:</b>      | <b>Stephanie A. Roy</b>  |

The Office of Air Quality (OAQ) has reviewed an application from TMF Center, Inc. relating to the operation of a metal construction machinery source.

**Permitted Emission Units and Pollution Control Equipment**

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

- (a) One (1) swing table shot blaster, identified as SB-1, installed in 1994, equipped with a baghouse BH-1, exhausting inside the building, capacity: 252 metal parts per hour or 2,063 pounds of metal parts per hour.
- (b) One (1) tumbler shot blaster, identified as SB-2, installed in 1994, equipped with a baghouse BH-2, exhausting inside the building, capacity: 246 metal parts per hour or 2,000 pounds of metal parts per hour.
- (c) One (1) WCRC-4 shot blaster, identified as SB-3, installed in 1994, equipped with internal filters, exhausting inside the building, capacity: 252 metal parts per hour or 2,063 pounds of metal parts per hour.
- (d) 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, capacity: 400 metal parts per hour.
- (e) Five (5) welding units, identified as W-1 through W-5, installed in 1998, capacity: one hundred (100) metal parts per hour, total.
- (f) One (1) cutting unit, identified as C-1, installed in 1994, capacity: twenty-five (25) parts per hour.
- (g) 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.
- (h) 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.
- (i) 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.

### Unpermitted Emission Units and Pollution Control Equipment

The source also consists of the following unpermitted emission units:

- (a) 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.
- (b) 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.
- (c) Five (5) welding units, identified as W-6 through W-10, installed in 2001, capacity: twenty (20) metal parts per hour, each.

Pursuant to 326 IAC 2-1.1-3(e) (Exemptions), the five (5) natural-gas fired space heaters and five (5) welding units are exempt from permitting.

### Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

CP 171-10420-00012 issued on May 11, 1999

All conditions from previous approvals were incorporated into this permit.

### Enforcement Issue

There are no enforcement actions pending.

### Stack Summary

| Stack ID | Operation         | Height (ft) | Diameter (ft) | Flow Rate (acfm) | Temperature (°F) |
|----------|-------------------|-------------|---------------|------------------|------------------|
| S-1      | Space Heater S-1  | 28.0        | 0.330         | N/A              | 100              |
| S-2      | Space Heater S-2  | 28.0        | 0.330         | N/A              | 100              |
| S-3      | Space Heater S-3  | 28.0        | 0.330         | N/A              | 100              |
| S-4      | Space Heater S-4  | 28.0        | 0.330         | N/A              | 100              |
| S-5      | Space Heater S-5  | 28.0        | 0.330         | N/A              | 100              |
| S-6      | Space Heater S-6  | 28.0        | 0.330         | N/A              | 100              |
| S-7      | Space Heater S-7  | 20.0        | 0.330         | N/A              | 100              |
| S-8      | Space Heater S-8  | 20.0        | 0.330         | N/A              | 100              |
| S-9      | Space Heater S-9  | 30.0        | 0.667         | N/A              | Ambient          |
| S-10     | Space Heater S-10 | 30.0        | 0.667         | N/A              | Ambient          |

| Stack ID | Operation         | Height (ft) | Diameter (ft) | Flow Rate (acfm) | Temperature (°F) |
|----------|-------------------|-------------|---------------|------------------|------------------|
| S-11     | Space Heater S-11 | 30.0        | 0.667         | N/A              | Ambient          |
| S-12     | Space Heater S-12 | 30.0        | 0.667         | N/A              | Ambient          |
| S-13     | Space Heater S-13 | 30.0        | 0.667         | N/A              | Ambient          |

### Recommendation

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

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

An application for the purposes of this review was received on February 9, 2004, with additional information received on April 22, 2004.

### Emission Calculations

See Appendix A, pages 1 through 7 of 7, of this document for detailed emission calculations.

### Potential to Emit of the Source Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA, the department, or the appropriate local air pollution control agency.”

| Pollutant        | Potential to Emit (tons/yr) |
|------------------|-----------------------------|
| PM               | 86.2                        |
| PM <sub>10</sub> | 86.3                        |
| SO <sub>2</sub>  | 0.009                       |
| VOC              | 7.70                        |
| CO               | 1.23                        |
| NO <sub>x</sub>  | 1.47                        |

| HAPs               | Potential to Emit (tons/yr) |
|--------------------|-----------------------------|
| Xylene             | 3.24                        |
| Toluene            | 0.433                       |
| Ethyl Benzene      | 0.572                       |
| MIBK               | 0.097                       |
| MEK                | 0.017                       |
| Ethylene Glycol    | 0.262                       |
| Cadmium Compounds  | 0.00002                     |
| Manganese          | 0.083                       |
| Benzene            | 0.00003                     |
| Dichlorobenzene    | 0.00002                     |
| Formaldehyde       | 0.001                       |
| Hexane             | 0.026                       |
| Chromium Compounds | 0.00002                     |
| Lead Compounds     | 0.00001                     |
| Nickel Compounds   | 0.00003                     |
| Total              | 4.73                        |

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM and PM<sub>10</sub> are less than 100 tons per and greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. An MSOP will be issued.
- (b) Fugitive Emissions  
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

**County Attainment Status**

The source is located in Warren County.

| Pollutant        | Status     |
|------------------|------------|
| PM <sub>10</sub> | Attainment |
| SO <sub>2</sub>  | Attainment |
| NO <sub>2</sub>  | Attainment |
| Ozone            | Attainment |
| CO               | Attainment |
| Lead             | Attainment |

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Warren County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (b) Warren County has been classified as attainment or unclassifiable for all remaining pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

**Source Status**

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

| Pollutant        | Emissions (tons/yr) |
|------------------|---------------------|
| PM               | 2.38                |
| PM <sub>10</sub> | 2.47                |
| SO <sub>2</sub>  | 0.009               |
| VOC              | 7.70                |
| CO               | 1.23                |
| NO <sub>x</sub>  | 1.47                |
| Single HAP       | 3.24                |
| Combination HAPs | 4.73                |

- (a) This existing source is not a major stationary source because no nonattainment regulated pollutant is emitted at a rate of 100 tons per year or greater and it is not in one of the 28 listed source categories.
- (b) These emissions were based on the MSOP application submitted by the source.

### **Part 70 Permit Determination**

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

This existing source, including the emissions from this permit 171-18498-00012, is still not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

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

This status is based on all the air approvals issued to the source. This status has been verified by the OAQ inspector assigned to the source.

### **Federal Rule Applicability**

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) 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.
- (c) This source is not subject to the requirements 40 CFR 63 Subpart M (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.

### **State Rule Applicability – Entire Source**

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

The unrestricted potential to emit from this source is less than 250 tons per year of any pollutant and it is not one of the 28 sources listed under 326 IAC 2-2. Therefore, the requirements of 326 IAC 2-2 do not apply.

#### 326 IAC 2-4.1-1 (New Source Toxics Control)

- (a) The source-wide welding units and the five (5) natural gas-fired space heaters identified as S-9 through S-13 were constructed after July 27, 1997. The potential to emit of these facilities for any single HAP is less than ten (10) tons per year and the potential to emit from any combination of HAPs is less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 2-4.1-1 do not apply to source-wide welding units and the five (5) natural gas-fired space heaters identified as S-9 through S-13
- (b) All remaining equipment were constructed prior to July 27, 1997 and are therefore not subject to the requirements of 326 IAC 2-4.1-1 (New Source Toxics Control).

### 326 IAC 2-6 (Emission Reporting)

Revisions to 326 IAC 2-6 (Emission Reporting) became effective March 27, 2004. The Permittee will not be required to submit an emission statement because it is not a Title V source.

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

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

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

### 326 IAC 6-4 (Fugitive Dust Emissions Limitations)

This rule requires the source 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).

## **State Rule Applicability – Individual Facilities**

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

- (a) Pursuant to 326 IAC 6-3-1(b)(6), 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) Particulate from the spray operation that is part of the one (1) paint booth identified as PB-1 shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

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

- (a) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (b) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the 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.

- (c) 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.
- (d) 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.
- (e) 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.
- (f) Pursuant to CP 171-10420-00012, issued on May 11, 1999, the particulate from the one (1) swing table shot blaster, with a process weight rate of 2,063 pounds of metal parts per hour, shall be limited by the following:

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:

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

$$E = 4.10 (1.03)^{0.67} = 4.19 \text{ pounds per hour}$$

The potential uncontrolled PM emissions from the one (1) swing table shot blaster are equal to 8.79 pounds per hour and the potential controlled PM emissions from the one (1) swing table shot blaster are equal to 0.088 pounds per hour. Therefore, baghouse BH-1 shall be in operation at all times the one (1) swing table shot blaster is in operation, in order to comply with this limit.

- (g) Pursuant to CP 171-10420-00012, issued on May 11, 1999, the particulate from the one (1) tumbler shot blaster, with a process weight rate of 2,000 pounds of metal parts per hour, shall be limited by the following:

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:

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

$$E = 4.10 (1.00)^{0.67} = 4.10 \text{ pounds per hour}$$

The potential uncontrolled PM emissions from the one (1) tumbler shot blaster are equal to 4.42 pounds per hour and the potential controlled PM emissions from the one (1) tumbler shot blaster are equal to 0.044 pounds per hour. Therefore, baghouse BH-2 shall be in operation at all times the one (1) tumbler shot blaster is in operation, in order to comply with this limit.

- (h) Pursuant to CP 171-10420-00012, issued on May 11, 1999, the particulate from the one (1) WCRC-4 shot blaster, with a process weight rate of 2,063 pounds of metal parts per hour, shall be limited by the following:

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:

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

$$E = 4.10 (1.03)^{0.67} = 4.19 \text{ pounds per hour}$$

The potential uncontrolled PM emissions from the one (1) WCRC-4 shot blaster are equal to 4.43 pounds per hour and the potential controlled PM emissions from the one (1) tumbler shot blaster are equal to 0.044 pounds per hour. Therefore, the internal filters shall be in operation at all times the one (1) WCRC-4 shot blaster is in operation, in order to comply with this limit.

#### 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 the unrestricted potential to emit 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.

### Conclusion

The operation of this metal construction machinery source shall be subject to the conditions of the Minor Source Operating Permit 171-18498-00012.

**Appendix A: Federal Potential Emissions Calculations  
VOC and Particulate  
From Surface Coating Operations**

**Company Name: TMF Center, Inc.  
Address City IN Zip: 300 West Washington Street, Williamsport, Indiana 47993  
Permit Number: MSOP 171-18498  
Plt ID: 171-00012  
Reviewer: Stephanie A. Roy  
Application Date: February 9, 2004**

| 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 |
|-----------------------------|------------------|------------------------------------|----------------|-------------------|----------------|---------------------------|----------------------------|---------------------|----------------------|---|----------------------------------|------------------------|-------------------------|-------------------------|---------------------------------|----------------------|---------------------|--------------------|
| PB-1                        |                  |                                    |                |                   |                |                           |                            |                     |                      |   |                                  |                        |                         |                         |                                 |                      |                     |                    |
| 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**

**Company Name:** TMF Center, Inc.  
**Address City IN Zip:** 300 West Washington Street, Williamsport, Indiana 47993  
**Permit Number:** MSOP 171-18498  
**Plt ID:** 171-00012  
**Permit Reviewer:** Stephanie A. Roy  
**Application Date:** February 9, 2004

| 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  
Shot Blasting**

**Company Name:** TMF Center, Inc.  
**Address City IN Zip:** 300 West Washington Street, Williamsport, Indiana 47993  
**Permit Number:** MSOP 171-18498  
**Plt ID:** 171-00012  
**Reviewer:** Stephanie A. Roy  
**Application Date:** February 9, 2004

| Unit ID      | Control Efficiency (%) | Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.) | Gas or Air Flow Rate (acfm.) | PM Emission Rate before Controls (lb/hr) | PM Emission Rate before Controls (tons/yr) | PM Emission Rate after Controls (lb/hr) | PM Emission Rate after Controls (tons/yr) |
|--------------|------------------------|---|------------------------------|--|--|---|---|
| BH-1         | 99.0%                  | 0.0042  | 2442                         | 8.79                                     | 38.5                                       | 0.088                                   | 0.385                                     |
| BH-2         | 99.0%                  | 0.0036  | 1432                         | 4.42                                     | 19.4                                       | 0.044                                   | 0.194                                     |
| SB-3         | 99.0%                  | 0.0056  | 923                          | 4.43                                     | 19.4                                       | 0.044                                   | 0.194                                     |
| <b>Total</b> |                        |   |                              | <b>17.6</b>                              | <b>77.3</b>                                | <b>0.176</b>                            | <b>0.773</b>                              |

**Methodology**

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (cub. ft./min.) (60 min/hr) (lb/7000 grains)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Emission Rate in lbs/hr (before controls) = Emission Rate (after controls): (lbs/hr)/(1-control efficiency)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

**Allowable Rate of Emissions**

| Unit ID | Process Rate (lbs/hr) | Process Weight Rate (tons/hr) | Allowable Emissions (lbs/hr) |
|---------|-----------------------|-------------------------------|------------------------------|
| BH-1    | 2063                  | 1.03                          | 4.19                         |
| BH-2    | 2000                  | 1.00                          | 4.10                         |
| SB-3    | 2063                  | 1.03                          | 4.19                         |

**Methodology**

Allowable Emissions = 4.10(Process Weight Rate)<sup>0.67</sup>

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 171-18498  
 Pit ID: 171-00012  
 Reviewer: Stephanie A. Roy  
 Application Date: February 9, 2004

| PROCESS                             | Number of Stations | Max. electrode consumption per station (lbs/hr) |                                      | EMISSION FACTORS*<br>(lb pollutant/lb electrode)                |        |    |        | EMISSIONS<br>(lbs/hr) |       |      |      | HAPS<br>(lbs/hr) |
|-------------------------------------|--------------------|---|--------------------------------------|---|--------|----|--------|-----------------------|-------|------|------|------------------|
|                                     |                    |   |                                      | PM = PM10   | Mn     | Ni | Cr     | PM = PM10             | Mn    | Ni   | Cr   |                  |
| WELDING                             |                    |   |                                      |   |        |    |        |                       |       |      |      |                  |
| 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<br>(lb pollutant/1,000 inches cut, 1" thick)** |        |    |        | EMISSIONS<br>(lbs/hr) |       |      |      | HAPS<br>(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             |
|                                     |                    |   |                                      |   |        |    |        |                       |       |      |      |                  |
| EMISSION TOTALS                     |                    |   |                                      |   |        |    |        |                       |       |      |      |                  |
| 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" tt

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 lb

**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 171-18498  
**Pit ID:** 171-00012  
**Reviewer:** Stephanie A. Roy  
**Application Date:** February 9, 2004

Heat Input Capacity  
MMBtu/hr

3.35

Potential Throughput  
MMCF/yr

29.3

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.

| Emission Factor in lb/MMCF    | Pollutant |       |       |                    |       |      |
|-------------------------------|-----------|-------|-------|--------------------|-------|------|
|                               | PM*       | PM10* | SO2   | NOx                | VOC   | CO   |
| Potential Emission in tons/yr | 1.90      | 7.60  | 0.600 | 100<br>**see below | 5.50  | 84.0 |
|                               | 0.028     | 0.112 | 0.009 | 1.47               | 0.081 | 1.23 |

\*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.

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

**Company Name: TMF Center, Inc.  
 Address City IN Zip: 300 West Washington Street, Williamsport, Indiana 47993  
 Permit Number: MSOP 171-18498  
 Pit ID: 171-00012  
 Reviewer: Stephanie A. Roy  
 Date: February 9, 2004**

| HAPs - Organics               |                  |                          |                       |                |                  |
|-------------------------------|------------------|--------------------------|-----------------------|----------------|------------------|
| Emission Factor in lb/MMcf    | Benzene<br>0.002 | Dichlorobenzene<br>0.001 | Formaldehyde<br>0.075 | Hexane<br>1.80 | Toluene<br>0.003 |
| Potential Emission in tons/yr | 0.00003          | 0.00002                  | 0.001                 | 0.026          | 0.00005          |

| HAPs - Metals                 |               |                  |                   |                     |                 |              |
|-------------------------------|---------------|------------------|-------------------|---------------------|-----------------|--------------|
| Emission Factor in lb/MMcf    | Lead<br>0.001 | Cadmium<br>0.001 | Chromium<br>0.001 | Manganese<br>0.0004 | Nickel<br>0.002 | <b>Total</b> |
| Potential Emission in tons/yr | 0.00001       | 0.00002          | 0.00002           | 0.00001             | 0.00003         | <b>0.028</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.