



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant

DATE: November 20, 2009

RE: TG Missouri Corporation / 043-28350-00058

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

## Notice of Decision: Approval - Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures  
FNPER.dot12/03/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

## Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

**TG Missouri Corporation  
5331 Foundation Blvd.  
New Albany, Indiana 47150**

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

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

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: M043-28350-00058	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: November 20, 2009 Expiration Date: November 20, 2019

## TABLE OF CONTENTS

<b>A. SOURCE SUMMARY.....</b>	<b>4</b>
A.1 General Information [326 IAC 2-5.1-3(c)][326 IAC 2-6.1-4(a)]	
A.2 Emission Units and Pollution Control Equipment Summary	
<b>B. GENERAL CONDITIONS .....</b>	<b>6</b>
B.1 Definitions [326 IAC 2-1.1-1]	
B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]	
B.3 Term of Conditions [326 IAC 2-1.1-9.5]	
B.4 Enforceability	
B.5 Severability	
B.6 Property Rights or Exclusive Privilege	
B.7 Duty to Provide Information	
B.8 Certification	
B.9 Annual Notification [326 IAC 2-6.1-5(a)(5)]	
B.10 Preventive Maintenance Plan [326 IAC 1-6-3]	
B.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]	
B.12 Termination of Right to Operate [326 IAC 2-6.1-7(a)]	
B.13 Permit Renewal [326 IAC 2-6.1-7]	
B.14 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]	
B.15 Source Modification Requirement	
B.16 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2] [IC 13-17-3-2][IC 13-30-3-1]	
B.17 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]	
B.18 Annual Fee Payment [326 IAC 2-1.1-7]	
B.19 Credible Evidence [326 IAC 1-1-6]	
<b>C. SOURCE OPERATION CONDITIONS .....</b>	<b>11</b>
<b>Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]</b>	
C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]	
C.2 Permit Revocation [326 IAC 2-1.1-9]	
C.3 Opacity [326 IAC 5-1]	
C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]	
C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]	
C.6 Fugitive Dust Emissions [326 IAC 6-4]	
C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]	
<b>Testing Requirements [326 IAC 2-6.1-5(a)(2)]</b>	
C.8 Performance Testing [326 IAC 3-6]	
<b>Compliance Requirements [326 IAC 2-1.1-11]</b>	
C.9 Compliance Requirements [326 IAC 2-1.1-11]	
<b>Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]</b>	
C.10 Compliance Monitoring [326 IAC 2-1.1-11]	
C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]	
C.12 Instrument Specifications [326 IAC 2-1.1-11]	
<b>Corrective Actions and Response Steps</b>	
C.13 Response to Excursions or Exceedances	
C.14 Actions Related to Noncompliance Demonstrated by a Stack Test	

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

- C.15 Malfunctions Report [326 IAC 1-6-2]
- C.16 General Record Keeping Requirements [326 IAC 2-6.1-5]
- C.17 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2]  
[IC 13-14-1-13]

**D.1. EMISSIONS UNIT OPERATION CONDITIONS..... 17**

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

- D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]
- D.1.2 Particulate [326 IAC 6-3-2(d)]
- D.1.3 Preventive Maintenance Plan [326 IAC 1-6-3]

**Compliance Determination Requirements**

- D.1.4 Volatile Organic Compounds (VOC)

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

- D.1.5 Record Keeping Requirements
- D.1.6 Reporting Requirements

Certification ..... 21  
Quarterly Report..... 22  
Annual Notification ..... 23  
Malfunction Report..... 24

## 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)]

---

The Permittee owns and operates a stationary plastic automotive parts manufacturing.

Source Address:	5331 Foundation Blvd., New Albany, Indiana 47150
Mailing Address:	5331 Foundation Blvd., New Albany, Indiana 47150
General Source Phone Number:	573-547-1041
SIC Code:	3714
County Location:	Floyd
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

---

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

- (a) One (1) surface coating line, identified as P15, constructed in 2005, consisting of:
  - (1) One (1) paint kitchen (shared with P16) for mixing coatings in covered pails, exhausting to stack PK-2.
  - (2) One (1) spray booth, equipped with high volume, low pressure (HVLP) spray guns and dry filters for overspray control, exhausting to stacks P15-1 and P15-2, capacity: 225 plastic automotive parts per hour.
  - (3) One (1) cure oven, rated 0.6 million British thermal units per hour.
- (b) One (1) surface coating line, identified as P16, constructed in 2005, consisting of:
  - (1) One (1) paint kitchen (shared with P15) for mixing coatings in covered pails, exhausting to stack PK-2.
  - (2) One (1) spray booth, equipped with high volume, low pressure (HVLP) spray guns and dry filters for overspray control, exhausting to stacks P16-1 and P16-2, capacity: 450 plastic automotive parts per hour.
  - (3) One (1) cure oven, rated 0.6 million British thermal units per hour.
- (c) One (1) surface coating line, identified as P17, constructed in 2005, consisting of:
  - (1) One (1) paint kitchen for mixing coatings in covered pails, exhausting to stack PK-1.

- (2) One (1) spray booth, equipped with high volume, low pressure (HVLP) spray guns and dry filters for overspray control, exhausting to stacks P17-1 through P17-7, capacity: 154 plastic automotive parts per hour.
- (3) One (1) cure oven, rated 1.0 million British thermal units per hour.
- (4) Two (2) natural gas-fired air makeup units, rated 5.0 million British thermal units per hour, each.
- (d) Fourteen (14) injection molding machines, constructed in 2005, capacity: 460 pounds of polypropylene resin pellets per hour, total.
- (e) Maintenance welding, with total weld wire or rod usage less than 625 pounds per day, including:
  - (1) One (1) MIG welder.
  - (2) One (1) stick welder.
- (f) Six (6) natural gas-fired air makeup units, constructed in 2005, rated 3.14 million British thermal units per hour, each.
- (g) One (1) natural gas-fired fluidized bed for cleaning paint racks, constructed in 2005, rated 0.892 million British thermal units per hour.
- (h) Two (2) natural gas-fired space heaters, constructed in 2005, rated 1.008 million British thermal units per hour, each.
- (i) Two (2) natural gas-fired office furnaces, constructed in 2005, rated 0.6182 million British thermal units per hour, each.
- (j) Electric infrared curing equipment.

## **SECTION B GENERAL CONDITIONS**

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

---

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

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

- 
- (a) This permit, M043-28350-00058, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

### **B.3 Term of Conditions [326 IAC 2-1.1-9.5]**

---

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

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

### **B.4 Enforceability**

---

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

### **B.5 Severability**

---

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

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

---

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

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

- 
- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

## B.8 Certification

---

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

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

---

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

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

---

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

---

- (a) All terms and conditions of permits established prior to M043-28350-00058 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

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

---

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

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

---

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
  - (1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

---

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

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

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

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

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

**B.15 Source Modification Requirement**

---

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

**B.16 Inspection and Entry**

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

---

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

(a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

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

---

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

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

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

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

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

B.19 Credible Evidence [326 IAC 1-1-6]

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

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

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

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

---

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

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

---

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

All required notifications shall be submitted to:

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

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

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

- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

---

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

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

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

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

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

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

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

---

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

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

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

---

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

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

---

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

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

---

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

## **Corrective Actions and Response Steps**

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

---

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records; and/or

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

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

---

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

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

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

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

---

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

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

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

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

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

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

- (a) Reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) surface coating line, identified as P15, constructed in 2005, consisting of:
  - (1) One (1) paint kitchen (shared with P16) for mixing coatings in covered pails, exhausting to stack PK-2.
  - (2) One (1) spray booth, equipped with high volume, low pressure (HVLP) spray guns and dry filters for overspray control, exhausting to stacks P15-1 and P15-2, capacity: 225 plastic automotive parts per hour.
  - (3) One (1) cure oven, rated 0.6 million British thermal units per hour.
- (b) One (1) surface coating line, identified as P16, constructed in 2005, consisting of:
  - (1) One (1) paint kitchen (shared with P15) for mixing coatings in covered pails, exhausting to stack PK-2.
  - (2) One (1) spray booth, equipped with high volume, low pressure (HVLP) spray guns and dry filters for overspray control, exhausting to stacks P16-1 and P16-2, capacity: 450 plastic automotive parts per hour.
  - (3) One (1) cure oven, rated 0.6 million British thermal units per hour.
- (c) One (1) surface coating line, identified as P17, constructed in 2005, consisting of:
  - (1) One (1) paint kitchen for mixing coatings in covered pails, exhausting to stack PK-1.
  - (2) One (1) spray booth, equipped with high volume, low pressure (HVLP) spray guns and dry filters for overspray control, exhausting to stacks P17-1 through P17-7, capacity: 154 plastic automotive parts per hour.
  - (3) One (1) cure oven, rated 1.0 million British thermal units per hour.
  - (4) Two (2) natural gas-fired air makeup units, rated 5.0 million British thermal units per hour, each.
- (d) Fourteen (14) injection molding machines, constructed in 2005, capacity: 460 pounds of polypropylene resin pellets per hour, total.
- (e) Maintenance welding, with total weld wire or rod usage less than 625 pounds per day, including:
  - (1) One (1) MIG welder.
  - (2) One (1) stick welder.
- (f) Six (6) natural gas-fired air makeup units, constructed in 2005, rated 3.14 million British thermal units per hour, each.
- (g) One (1) natural gas-fired fluidized bed for cleaning paint racks, constructed in 2005, rated 0.892 million British thermal units per hour.

- (h) Two (2) natural gas-fired space heaters, constructed in 2005, rated 1.008 million British thermal units per hour, each.
- (i) Two (2) natural gas-fired office furnaces, constructed in 2005, rated 0.6182 million British thermal units per hour, each.
- (j) Electric infrared curing equipment.

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

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

#### **D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]**

Pursuant to MSOP # M043-20232-00058, issued on December 9, 2004, the use of VOC, including coatings, dilution solvents, and cleaning solvents at one (1) surface coating line, identified as P17, shall be limited to 24.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This usage limit is required to limit the potential to emit of VOC to less than twenty-five (25) tons per year from the surface coating line. Compliance with this limit makes 326 IAC 8-1-6 (New facilities; General reduction requirements) not applicable.

#### **D.1.2 Particulate [326 IAC 6-3-2(d)]**

- (a) Pursuant to 326 IAC 6-3-2(d), Particulates from the surface coating 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.
- (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.1.3 Incinerators [326 IAC 4-2-2]**

The fluidized bed oven for cleaning racks has a maximum waste substance capacity of less than 100 pounds per hour. Pursuant to 326 IAC 4-2 (Incinerators), the incinerator unit shall:

- (a) Consist of primary and secondary chambers or the equivalent;
- (b) Be equipped with a primary burner unless burning wood products;
- (c) Comply with 326 IAC 5-1 and 326 IAC 2;
- (d) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2(c); and

- (e) Not emit particulate matter in excess of five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air.
- (f) If any of the requirements of (a) through (e) above are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

The Permittee operating the incinerator must make the manufacturer's specifications or the operation and maintenance plan available to the department upon request.

#### D.1.4 Carbon Monoxide Emission Limits [326 IAC 9-1-2]

Pursuant to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits), the Permittee shall not operate the fluidized bed oven for cleaning paint racks unless the waste gas stream is burned in one of the following:

- (a) Direct-flame afterburner; or
- (b) Secondary chamber.

#### D.1.5 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 the three (3) spray booths and any control devices.

### **Compliance Determination Requirements**

#### D.1.6 Volatile Organic Compounds (VOC)

Compliance with the VOC usage limitation contained in Condition D.1.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

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

#### D.1.7 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and the VOC emission limits established in Condition D.1.1. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
  - (1) The amount and VOC content of each coating material and solvent used at each coating line. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
  - (2) The cleanup solvent usage for each month at each surface coating line;
  - (3) The total VOC usage for each month at each surface coating line; and
  - (4) The weight of VOCs emitted for each compliance period at each surface coating

line.

- (b) To document compliance with Condition D.1.2, the Permittee shall maintain records of control device inspections, repairs of the control device, and changes in operations as required by that condition.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.8 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.

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

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

Source Name: TG Missouri Corporation  
Source Address: 5331 Foundation Blvd., New Albany, Indiana 47150  
Mailing Address: 5331 Foundation Blvd., New Albany, Indiana 47150  
MSOP No.: M043-28350-00058

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

# Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

## Quarterly Report

Source Name: TG Missouri Corporation  
Source Address: 5331 Foundation Blvd., New Albany, Indiana 47150  
Mailing Address: 5331 Foundation Blvd., New Albany, Indiana 47150  
MSOP Permit No.: M043-28350-00058  
Source: One (1) surface Coating line, Identified as P17  
Pollutant: VOC usage  
Limit: No more than 24.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

Year: \_\_\_\_\_

Month	VOC Usage (tons)	VOC Usage (tons)	VOC Usage (tons)
	This month	Previous 11 Months	12 Month Total

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

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

**MINOR SOURCE OPERATING PERMIT  
ANNUAL NOTIFICATION**

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

<b>Company Name:</b>	TG Missouri Corporation
<b>Address:</b>	5331 Foundation Blvd.
<b>City:</b>	New Albany, Indiana 47150
<b>Phone #:</b>	573-547-1041
<b>MSOP #:</b>	M043-28350-00058

I hereby certify that TG Missouri Corporation is :

still in operation.

no longer in operation.

I hereby certify that TG Missouri Corporation is :

in compliance with the requirements of MSOP M043-28350-00058.

not in compliance with the requirements of MSOP M043-28350-00058.

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

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

<b>Noncompliance:</b>

**MALFUNCTION REPORT**

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

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

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

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

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

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

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

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

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

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

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

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

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

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

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

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

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

\*SEE PAGE 2

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

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

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

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

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

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

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

---

---

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

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

**Source Description and Location**

<b>Source Name:</b>	<b>TG Missouri Corporation</b>
<b>Source Location:</b>	<b>5331 Foundation Blvd, Indiana 47150</b>
<b>County:</b>	<b>Floyd</b>
<b>SIC Code:</b>	<b>3714-01</b>
<b>MSOP Permit Renewal No.:</b>	<b>M043-28350-00058</b>
<b>Permit Reviewer:</b>	<b>Swarna Prabha</b>

On August 17, 2009, the Office of Air Quality (OAQ) has received the operating permit renewal application from TG Missouri Corporation relating to the continued operation of an existing stationary plastic automotive parts manufacturing source.

**Existing Approvals**

The source was issued MSOP No. 043-20232-00058 on December 09, 2004. The source has not received any other approval since the issuance of the MSOP.

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

**Permitted Emission Units and Pollution Control Equipment**

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

- (a) One (1) surface coating line, identified as P15, constructed in 2005, consisting of:
  - (1) One (1) paint kitchen (shared with P16) for mixing coatings in covered pails, exhausting to stack PK-2.
  - (2) One (1) spray booth, equipped with high volume, low pressure (HVLP) spray guns and dry filters for overspray control, exhausting to stacks P15-1 and P15-2, capacity: 225 plastic automotive parts per hour.
  - (3) One (1) cure oven, rated 0.6 million British thermal units per hour.
- (b) One (1) surface coating line, identified as P16, constructed in 2005, consisting of:
  - (1) One (1) paint kitchen (shared with P15) for mixing coatings in covered pails, exhausting to stack PK-2.
  - (2) One (1) spray booth, equipped with high volume, low pressure (HVLP) spray guns and dry filters for overspray control, exhausting to stacks P16-1 and P16-2, capacity: 450 plastic automotive parts per hour.
  - (3) One (1) cure oven, rated 0.6 million British thermal units per hour.
- (c) One (1) surface coating line, identified as P17, constructed in 2005, consisting of:

- (1) One (1) paint kitchen for mixing coatings in covered pails, exhausting to stack PK-1.
- (2) One (1) spray booth, equipped with high volume, low pressure (HVLP) spray guns and dry filters for overspray control, exhausting to stacks P17-1 through P17-7, capacity: 154 plastic automotive parts per hour.
- (3) One (1) cure oven, rated 1.0 million British thermal units per hour.
- (4) Two (2) natural gas-fired air makeup units, rated 5.0 million British thermal units per hour, each.
- (d) Fourteen (14) injection molding machines, constructed in 2005, capacity: 460 pounds of polypropylene resin pellets per hour, total.
- (e) Maintenance welding, with total weld wire or rod usage less than 625 pounds per day, including:
  - (1) One (1) MIG welder.
  - (2) One (1) stick welder.
- (f) Six (6) natural gas-fired air makeup units, constructed in 2005, rated 3.14 million British thermal units per hour, each.
- (g) One (1) natural gas-fired fluidized bed for cleaning paint racks, constructed in 2005, rated 0.892 million British thermal units per hour.
- (h) Two (2) natural gas-fired space heaters, constructed in 2005, rated 1.008 million British thermal units per hour, each.
- (i) Two (2) natural gas-fired office furnaces, constructed in 2005, rated 0.6182 million British thermal units per hour, each.
- (j) Electric infrared curing equipment.

<b>Unpermitted Emission Units and Pollution Control Equipment</b>
---

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

<b>Emission Units and Pollution Control Equipment Removed From the Source</b>
---

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

<b>Enforcement Issues</b>
---------------------------

There are no pending enforcement actions related to this source.

<b>Emission Calculations</b>
------------------------------

See Appendix A of this document for detailed emission calculations.

<b>County Attainment Status</b>
---------------------------------

The source is located in Floyd County.

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

<sup>1</sup>Attainment effective October 23, 2001, for the 1-hour ozone standard for the Louisville area, including Floyd County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standard (NAAQS) for purposes of 40 CFR Part 51, Subpart X\*. The 1-hour standard was revoked effective June 15, 2005. Basic nonattainment designation effective federally April 5, 2005, for PM2.5.

(a) Ozone Standards

- (1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, and St. Joseph as attainment for the 8-hour ozone standard.
- (3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.
- (4) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Kosciusko County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM2.5

U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Floyd County as nonattainment for PM2.5. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM2.5 promulgated on May 8<sup>th</sup>, 2008, and effective on July 15<sup>th</sup> 2008. Therefore, direct PM2.5 and SO2 emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

(c) Other Criteria Pollutants

Floyd County has been classified as attainment or unclassifiable in Indiana for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

**Fugitive Emissions**

- (a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.
- (b) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

**Potential to Emit After Issuance of the MSOP**

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

Process/ Emission Unit	Potential To Emit (tons/year)								
	PM	*PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	Total HAPs	Worst Single HAP
Surface coating line- P15	8.27	8.27	8.27	0.0	12.25	0.0	0.0	negl.	negl.
Surface coating line- P16	6.15	6.15	6.15	0.0	9.11	0.0	0.0	negl.	negl.
**Surface coating line- P17	1.53	1.53	1.53	0.0	24**	0.0	0.0	0.349	0.349 (Xylene)
Injection Molding	0	0	0	0.0	0.82	0.0	0.0	0.116	0.116 (Trichloroethylene)
Natural gas- curing ovens, and Air makeup units	0.283	1.13	1.13	0.09	0.818	12.49	14.87	0.281	0.268 (Hexane)
Mig and TIG Welding	1.51	1.51	1.51	0	0	0	0	0.08	0.08 (Manganese)
<b>Total PTE of Entire Source</b>	<b>17.74</b>	<b>18.59</b>	<b>18.59</b>	<b>0.09</b>	<b>46.99</b>	<b>12.49</b>	<b>14.87</b>	<b>0.83</b>	<b>0.349</b> (Xylene)
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	N/A	250	250	250	250	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	100	100	100	100	100	100	100	NA	NA
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM <sub>10</sub> ), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM <sub>10</sub> emissions as surrogate for PM <sub>2.5</sub> emissions. ** Existing VOC Emission limit from Surface Coating Line- P17 specified in M 043-20232-00058 is to avoid 326 IAC 8-1-6. There is no emission factor for PM <sub>2.5</sub> in AP42, PM <sub>10</sub> = PM <sub>2.5</sub>									

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC is less than one hundred (100) tons per year, but greater than twenty-five (25) tons per year. PTE of other criteria pollutants are still less than 100 tons per year. The source is not subject to the provisions of 326 IAC 2-7. Therefore, the source will be issued a MSOP Renewal.
- (b) The existing stationary source is not major for Emission Offset and Nonattainment NSR because the emissions of the nonattainment pollutant, PM<sub>2.5</sub> is less than one hundred (<100) tons per year.

- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is still less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source will be issued an MSOP Renewal.

<b>Federal Rule Applicability Determination</b>
---

New Source Performance Standards (NSPS)

- (a) The natural-gas fired fluidized bed for cleaning paint racks oven does not burn solid waste, as defined in 40 CFR 60, Subpart E. Therefore, the requirements of the New Source Performance Standards for Incinerators, 40 CFR 60, Subpart E, are not included in this permit.
- (b) The natural-gas fired fluidized bed for cleaning paint racks oven does not burn municipal waste, as defined in 40 CFR 60, Subpart Ea. The dried paint comes from a manufacturing process. Therefore, the requirements of the New Source Performance Standards for Municipal Waste Combustors for Which Construction is Commenced After December 20, 1989 and on or Before September 20, 1994, 40 CFR 60, Subpart Ea, are not included in this permit.
- (c) The natural-gas fired fluidized bed for cleaning paint racks oven does not burn municipal waste, as defined in 40 CFR 60, Subpart Eb. The dried paint comes from a manufacturing process. Therefore, the requirements of the New Source Performance Standards for Municipal Waste Combustors for Which Construction is Commenced After September 20, 1994 or for Which Modification or Reconstruction is Commenced After June 19, 1996, 40 CFR 60, Subpart Eb, are not included in this permit.
- (d) The natural-gas fired fluidized bed for cleaning paint racks oven does not burn hospital/medical/infectious waste, as defined in 40 CFR 60, Subpart Ec. Therefore, the requirements of the New Source Performance Standards for Hospital/Medical/Infectious Waste Incinerators for Which Construction is Commenced After June 20, 1996, 40 CFR 60, Subpart Ec, are not included in this permit.
- (e) The natural-gas fired fluidized bed for cleaning paint racks oven does not burn municipal waste, as defined in 40 CFR 60, Subpart AAAA. The dried paint comes from a manufacturing process. Therefore, the requirements of the New Source Performance Standards for Small Municipal Waste Combustion Units for Which Construction is Commenced After August 30, 1999 or for Which Modification or Reconstruction is Commenced After June 6, 2001, 40 CFR 60, Subpart AAAA, are not included in this permit.
- (f) The natural-gas fired fluidized bed oven for cleaning paint racks does not burn solid waste, as defined in 40 CFR 60, Subpart CCCC. Therefore, the requirements of the New Source Performance Standards for Commercial and Industrial Solid Waste Incineration Units for Which Construction Is Commenced After November 30, 1999 or for Which Modification or Reconstruction Is Commenced on or After June 1, 2001, 40 CFR 60, Subpart CCCC, is not included in this permit because it is considered rack reclamation unit.
- (g) The natural-gas fired fluidized bed for cleaning paint racks oven is not a small municipal waste combustion unit or institutional waste incineration unit, as defined in 40 CFR 60, Subpart EEEE. Therefore, the requirements of the New Source Performance for Other Solid Waste Incineration Units for Which Construction is Commenced After December 9, 2004, or for Which Modification or Reconstruction is Commenced on or After June 16, 2006, 40 CFR 60, Subpart EEEE, are not included in this permit.
- (h) This proposed source only coats plastic automobile parts. Therefore, pursuant to 40 CFR 60.360(b), it is not subject to the requirements of the New Source Performance Standard, 326 IAC 12 (40 CFR 60.360, Subpart MM).

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

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (a) This source is not subject to the requirements 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.
- (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) 40 CFR 63, Subpart H (Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources) The requirements of National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 63, Subpart H (Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources) apply to an area source of HAP which is involved in any of the following activities:
  - (1) Performs Paint stripping operations that involve the use of chemical strippers that contain methylene chloride (MeCl) (Chemical Abstract Service number 75092) in a paint removal processes.
  - (2) Performs auto body refinishing operations that encompass motor vehicle and mobile equipment spray applied surface coating operations.
  - (3) Performs application of spray coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd), collectively referred to as the target HAP, to any part or product made of metal or plastic, or combinations of metal and plastic that are not motor vehicles and mobile equipment.

This source does not perform paint stripping using methylene chloride (MeCl), and surface coating used does not contain chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd), nor does it refinish motor vehicles or mobile equipment. Therefore, the provisions of 40 CFR 63, subpart H are not applicable to this source and will not be included in this permit.

- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Plastic Parts and Products, Subpart P (Part 63.4480) are not included in this permit because the proposed source is not a major source of HAPs.
- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Reinforced Plastic Composites Production, Subpart W (Part 63.5780) are not included in this permit because the proposed source is not a major source of HAPs.
- (f) There are no other new National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed renewal.

Compliance Assurance Monitoring (CAM)

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

<b>State Rule Applicability Determination</b>
---

326 IAC 2-6.1 (Minor Source Operating Permit)

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

326 IAC 2-2 (Prevention of Significant Deterioration)

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

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

The potential to emit each individual hazardous air pollutant (HAP) is less than 10 tons per year and the potential to emit any combination of HAPs is less than 25 tons per year. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 5-1 (Opacity Limitations)

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

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

326 IAC 2-6 (Emission Reporting)

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

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

The source is located in Floyd County which is attainment for particulate matter. 326 IAC 6-5 applies to nonattainment areas of particulate matter or new sources of fugitive particulate matter emissions located anywhere in the state requiring a permit as set forth in 326 IAC 2, which has not received all the necessary preconstruction approvals before December 13, 1988. Therefore, 326 IAC 6-5 is not applicable to this source.

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

This source does not perform miscellaneous metal coating operations as described in 326 IAC 8-2-1(a)(4), and is therefore not subject to 326 IAC 8-2-9.

326 IAC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties)

Pursuant to 326 IAC 10-1-1(a)(3), this rule is applicable to facilities requiring a permit under 326 IAC 2 that are constructed, modified, or reconstructed after the effective date of the rule and to which an NSPS does not apply. Although this source requires a permit under 326 IAC 2, there are no facilities with the potential to emit NO<sub>x</sub> that alone would require a permit under 326 IAC 2. Therefore, the requirements of 326 IAC 10-1 are not applicable.

State Rule Applicability – Surface Coating Lines- P15, P16 and P17

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

- (a) Pursuant to 326 IAC 6-3-2(d), particulate emissions from the surface coating lines, identified as P15, P16, and P17 must be controlled by dry filters, waterwash, or an equivalent control device and the control device must be operated in accordance with manufacturer's specifications. The source shall operate the dry filters in accordance with manufacturer's specifications.
- (b) If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:

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

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

**326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties)**

Pursuant to 326 IAC 8-7-2(a)(3)(K), emissions from plastic parts coating for automobiles are not counted towards the applicability of 326 IAC 8-7. The coating facilities at this source are all plastic coating facilities. Therefore, the VOC emissions from the coating facilities are not counted towards the applicability of 326 IAC 8-7. All other VOC emissions are from injection molding and natural gas combustion. The VOC emissions from those facilities are less than 10 tons per year at this source, which has coating facilities. Therefore, the requirements of 326 IAC 8-7 are not applicable. The aggregate potential emissions from those facilities are also less than 40 tons per year. Therefore, the recordkeeping requirements are not applicable pursuant to 326 IAC 8-7-2(c).

**326 IAC 8-1-6 (New facilities; General reduction requirements)**

The surface coating lines at this source are parallel operations. Therefore, they are considered separate facilities for the purposes of 326 IAC 8-1-6 as specified in MSOP # M043-20232-00058.

- (a) The potential VOC emissions from the one (1) surface coating line, identified as P15, are less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.
- (b) The potential VOC emissions from the one (1) surface coating line, identified as P16, are less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.
- (c) The potential VOC emissions from each of the fourteen (14) injection molding machines are less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.
- (d) The potential VOC emissions from the one (1) surface coating line, identified as P17, are greater than 25 tons per year and there are no other rules applicable to the spray booth under 326 IAC 8. Pursuant to MSOP # M043-20232-00058, issued on December 9, 2004, the VOC usage at the surface coating line shall still be limited to 24.0 tons per consecutive twelve (12) month period, with compliance determined at the end of each month. This will limit the VOC emissions from this surface coating line to less than 25 tons per year, including VOC emissions from combustion. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

**State Rule Applicability - Injection Molding**

**326 IAC 20-25 (Emissions from Reinforced Plastics Composites Fabricating Emission Units)**

This source does not have the potential to emit ten (10) tons per year of any hazardous air pollutant (HAP) or twenty-five (25) tons per year of any combination of HAPs. In addition, the resin used in the injection molding does not contain styrene. Therefore, the requirements of 326 IAC 20-25 are not applicable.

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

The clean up solvent that is used in the injection molding process 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 injection molding is not subject to the requirements of 326 IAC 8-6 (Organic Solvent Emission Limitations) because the source is located in Floyd County and potential VOC emissions from the clean up solvent are less than one hundred (100) tons per year.

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

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

State Rule Applicability - Natural Gas space heaters and Fluidized bed oven

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

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

326 IAC 4-2-2 (Incinerators)

The natural gas-fired fluidized bed for cleaning paint racks, is subject to the requirements of 326 IAC 4-2-1 because it meets the definition of an incinerator provided in 326 IAC 1-2-34 and is not subject to any of the rules identified in 326 IAC 4-2-1(b)(2).

Pursuant to 326 IAC 4-2, the fluidized bed oven shall:

- (1) Consist of primary and secondary chambers or the equivalent;
- (2) Be equipped with a primary burner unless burning wood products;
- (3) Comply with 326 IAC 5-1 and 326 IAC 2;
- (4) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2(c); and
- (5) Not emit particulate matter in excess of one (1) of the following:
  - (A) Three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions correct to fifty percent (50%) excess air for incinerators with solid waste capacity of greater than or equal to two hundred (200) pounds per hour.
  - (B) Five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators with solid waste capacity of less than two hundred (200) pounds per hour.
- (6) If any requirements of 326 IAC 4-2-2(1) through 326 IAC 4-2-2(5) above are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

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

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

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

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

pounds per hour respectively.

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

Pursuant to 326 IAC 6-3-2 (e) the particulate emissions (PM) from the fluidized bed burn off oven shall be limited to less than 0.551 pounds per hour, when operating at a process weight rate of less than 100 pounds per hour.

The pounds per hour limitation was computed using the following equation:

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

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

326 IAC 9-1-2 (Carbon Monoxide Emission Limits)

The natural gas-fired combustion units are not subject to 326 IAC 9-1-1 (Carbon Monoxide Emission Limits) because there is no applicable emission limits for the source under 326 IAC 9-1-2. However, the natural gas-fired fluidized bed for cleaning paint racks, which is considered refuse incineration and refuse burning equipment are subject to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits) because these units are a stationary source of carbon monoxide constructed after March 21, 1972 and subject to the requirements of 326 IAC 9-1-2(a)(3).

Pursuant to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits), the Permittee shall not operate the fluidized bed oven for cleaning racks, unless the waste gas stream is burned in one (1) of the following:

- (1) Direct-flame afterburner; or
- (2) Secondary chamber.

State Rule Applicability - Maintenance Welding operation

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

- (a) Pursuant to 326 IAC 6-3-1(b) (9), the maintenance welding, is exempt from the requirements of 326 IAC 6-3, because the potential to consume welding wire is less than six hundred twenty-five (625) pounds per day.
- (b) Pursuant to 326 IAC 6-3-1(b)(14), the source-wide welding operations are not subject to the requirements of 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) because they have the combined potential to emit particulate matter less than 0.551 pounds per hour.

<b>Compliance Determination, Monitoring and Testing Requirements</b>
--

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

IDEM has determined that compliance with the VOC content limits in 326 IAC 8 can be established by using the data contained in the relevant MSDS and through calculations performed by the Permittee. The compliance determination and monitoring requirements for the paint booths applicable are as follows:

- (1) Compliance shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer copies of "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.
- (2) Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

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

### Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on August 13, 2009, and additional information received on August 18, 2009.

The continued operation of this source shall be subject to the conditions of the attached proposed MSOP No. 043-28350-00058. The staff recommends to the Commissioner that this MSOP be approved.

### IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Swarna Prabha at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5376 or toll free at 1-800-451-6027 extension 4-5376.
- (b) A copy of the findings is available on the Internet at: [www.in.gov/idem/ai/appfiles/idem-caats/](http://www.in.gov/idem/ai/appfiles/idem-caats/)
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov/](http://www.idem.in.gov/)

**Appendix A: Emissions Calculations  
Emission Summary**

**Company Name: TG Missouri Corporation  
Address City IN Zip: 5331 Foundation Blvd., New Albany, IN 47150  
MSOP Renewal No. : 043-28350-00058  
Reviewer: Swarna Prabha**

Uncontrolled Potential Emissions (tons/year)								
Emissions Generating Activity								
Category	Pollutant	Surface Coating Line P15	Surface Coating Line P16	Surface Coating Line P17	Injection Molding	MIG and TIG Welding	Natural gas Combustion	TOTAL
Criteria Pollutants	PM	8.27	6.15	1.52		1.51	0.28	17.74
	PM10	8.27	6.15	1.52		1.51	1.13	18.59
	SO2						0.09	0.09
	NOx						14.87	14.87
	VOC	12.25	9.11	32.67	0.82		0.82	55.66
	CO						12.49	12.49
Hazardous Air Pollutants	n-Hexane						0.27	0.27
	Chromium					6.39E-13	2.1E-04	2.1E-04
	Manganese					0.08	5.7E-05	8.0E-02
	Nickel					3.20E-08	3.1E-04	3.1E-04
	Toluene						5.1E-04	5.1E-04
	Xylene			0.35				3.5E-01
	Trichloroethylene				0.12			1.2E-01
	Formaldehyde						1.1E-02	1.1E-02
	Lead						7.4E-05	7.4E-05
	HDI			0.005				5.5E-03
	<b>Totals</b>				<b>0.35</b>	<b>0.12</b>	<b>0.08</b>	<b>2.8E-01</b>

Total emissions based on rated capacity at 8,760 hours/year.

Controlled Potential Emissions (tons/year)								
Emissions Generating Activity								
Category	Pollutant	Surface Coating Line P15	Surface Coating Line P16	Surface Coating Line P17*	Injection Molding	MIG and TIG Welding	Natural gas Combustion	TOTAL
Criteria Pollutants	PM	8.27	6.15	3.19		1.51	0.28	4.99
	PM10	8.27	6.15	3.19		1.51	1.13	5.83
	SO2						0.1	0.09
	NOx						14.9	14.87
	VOC	12.25	9.11	24.00	0.82		0.82	25.64
	CO						12.49	12.49
Hazardous Air Pollutants	n-Hexane						0.27	0.27
	Chromium					6.39E-13	2.1E-04	2.1E-04
	Manganese					0.08	5.7E-05	8.0E-02
	Nickel					3.20E-08	3.1E-04	3.1E-04
	Toluene						5.1E-04	5.1E-04
	Xylene			0.35				3.5E-01
	Trichloroethylene				0.12			1.2E-01
	Formaldehyde						1.1E-02	1.1E-02
	Lead						7.4E-05	7.4E-05
	HDI			0.005				5.5E-03
	<b>Totals</b>				<b>0.35</b>	<b>0.12</b>	<b>0.08</b>	<b>2.8E-01</b>

There are no emission factors in AP42 for PM2.5, PM10 = PM2.5

\* Limited VOC to avoid 326 IAC 8-1-6 from Surface Coating Line 17

1. On May 8, 2008 U. S. EPA promulgated the new requirements for Prevention Of Significant Deterioration (PSD) for PM 2.5 emissions and the effective date of these rules was July 15th, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC2-2, to include those requirements. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM2.5 Emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 .

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

**Company Name: TG Missouri Corporation  
Address City IN Zip: 5331 Foundation Blvd., New Albany, IN 47150  
MSOP Renewal No. : 043-28350-00058  
Reviewer: Swarna Prabha**

Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum* (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
<b>P15</b>																
467W	9.27	59.050%	43.9%	15.2%	53.5%	33.49%	0.01106	180.000	3.02	1.40	2.80	67.11	12.25	8.27	4.19	75%
<b>P16</b>																
467W	9.27	59.050%	43.9%	15.2%	53.5%	33.49%	0.00658	225.000	3.02	1.40	2.08	49.91	9.11	6.15	4.19	75%
<b>P17</b>																
303LE35	7.78	75.028%	0.0%	75.0%	0.0%	18.95%	0.00172	360.000	5.84	5.84	3.61	86.76	15.83	1.32	30.81	75%
LE9425B	8.06	59.260%	0.0%	59.3%	0.0%	35.00%	0.00016	360.000	4.77	4.77	0.27	6.60	1.20	0.21	13.64	75%
IA3-9-868	7.13	100.000%	0.0%	100.0%	0.0%	0.00%	0.00139	360.000	7.13	7.13	3.57	85.64	15.63	0.00	n/a	75%

PM Control Efficiency: 80.00%

**State Potential Emissions**

**Add worst case coating to all solvents**

<b>Uncontrolled</b>	<b>12.3</b>	<b>296</b>	<b>54.0</b>	<b>15.9</b>
<b>Controlled</b>	<b>12.3</b>	<b>296</b>	<b>54.0</b>	<b>3.19</b>

METHODOLOGY

Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % HDI	Xylene Emissions (ton/yr)	HDI Emissions (ton/yr)	Total HAP Emissions (ton/yr)
<b>P15</b>								
467W	9.27	0.01106	180.000	0.00%	0.00%	0.000	0.000	0.000
<b>P16</b>								
467W	9.27	0.00658	225.000	0.00%	0.00%	0.000	0.000	0.000
<b>P17</b>								
303LE35	7.78	0.00172	360.000	1.00%	0.00%	0.211	0.000	0.211
LE9425B	8.06	0.00016	360.000	6.79%	0.27%	0.138	0.005	0.143
IA3-9-868	7.13	0.00139	360.000	0.00%	0.00%	0.000	0.000	0.000

Total State Potential Emissions **0.349** **0.005** **0.355**

There is no emission factor in AP42 for PM2.5, PM10 = PM2.5

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

\* The Maximum (unit/hr) may be higher than the number presented, but the gallons of material used on that part is lower. The number in this calculation is the maximum units per hour and gallons per unit resulting in the highest coating usage for the hour.

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)

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

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)

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

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

Total = Worst Coating + Sum of all solvents used

**Addendum Appendix A: Emissions Calculation:  
Injection Molding**

**Company Name: TG Missouri Corporation  
Address City IN Zip: 5331 Foundation Blvd., New Albany, IN 47150  
MSOP Renewal No. : 043-28350-00058  
Reviewer: Swarna Prabha**

Material	Maximum pounds of resin per hour	Weight % VOC*	Weight % HAPs	Emission Factor (weight % of starting monomer emitted)	Pounds VOC per hour	Pounds VOC per day	Tons of VOC per Year
Polypropylene resin pellets	460	1%	0%	3%	0.138	3.312	0.604
<b>Totals:</b>					<b>0.138</b>	<b>3.31</b>	<b>0.604</b>

Non-Open Molding Operations include the following: continuous lamination, pultrusion, marble casting, and closed molding

**METHODOLOGY**

Potential VOC Pounds per Hour = Maximum pounds of resin per hour \* Weight % of Monomer\*Emission factor (weight % of starting monomer emitted)  
 Potential VOC Pounds per Day = Potential VOC Pounds per Hour \* (24 hrs / 1 day)  
 Potential VOC Tons per Year = Potential VOC Pounds per Hour \* (8760 hr/yr) \* (1 ton / 2000 lbs)  
 Emission Factors for Marble Casting and Closed Molding are 3% for NVS and 2% for VS  
 \* This material contains a negligible amount of VOC. 1% is used for conservatism

Other materials:

Expected Usage of Each material (cans/week)	Content of can (lbs/can)	Safety Factor	Maximum Usage (lbs/yr)
1	1	2	145.6

Material	Maximum pounds per year	Weight % VOC	Weight % Trichloroethylene	Tons of VOC per Year	Tons of Trichloroethylene per Year
Mold release	145.6	99%	0%	0.072	0.000
Cleaner/degreaser	145.6	97%	75%	0.071	0.055
Rust preventive	145.6	100%	85%	0.073	0.062
<b>Totals:</b>				<b>0.215</b>	<b>0.116</b>

**METHODOLOGY**

Maximum Usage (lbs/yr) = Expected usage (cans/week) \* Content of can (lbs/can) \* Safety Factor \* 7 total days per week /5 actual days per week \* 52 weeks/yr  
 Potential VOC Tons per Year = Maximum pounds per year \* Weight % VOC / 2,000 lbs/ton  
 Potential HAP (Trichloroethylene) Tons per Year = Maximum pounds per year \* Weight % HAP / 2,000 lbs/ton

**Totals:**

VOC (tons/yr)	HAP (tons/yr)
<b>0.820</b>	<b>0.116</b>

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

**Company Name: TG Missouri Corporation  
Address City IN Zip: 5331 Foundation Blvd., New Albany, IN 47150  
MSOP Renewal No. : 043-28350-00058  
Reviewer: Swarna Prabha**

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100	5.50	84.0
				**see below		

\*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

Equipment	Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Potential Emission in tons/yr					
			PM*	PM10*	SO2	NOx	VOC	CO
Cure oven for P15	0.60	5.26	0.005	0.020	0.002	0.263	0.014	0.221
Cure oven for P16	0.60	5.26	0.005	0.020	0.002	0.263	0.014	0.221
Cure oven for P17	1.00	8.76	0.008	0.033	0.003	0.438	0.024	0.368
Two (2) air makeup units for P17	10.00	87.6	0.083	0.333	0.026	4.38	0.241	3.68
Six (6) air makeup units for general source	18.84	165	0.157	0.627	0.050	8.25	0.454	6.93
Fluidized bed	0.89	7.81	0.007	0.030	0.002	0.391	0.021	0.328
Two (2) space heaters	2.02	17.7	0.017	0.067	0.005	0.883	0.049	0.742
Two (2) office furnaces	1.24	10.8	0.010	0.041	0.003	0.542	0.030	0.455
<b>Total</b>	<b>35.18</b>	<b>297</b>	<b>0.283</b>	<b>1.13</b>	<b>0.089</b>	<b>14.9</b>	<b>0.818</b>	<b>12.5</b>

**Methodology**

There is no emission factor in AP42 for PM2.5, PM10 = PM2.5

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

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

**Company Name: TG Missouri Corporation**  
**Address City IN Zip: 5331 Foundation Blvd., New Albany, IN 47150**  
**Permit Number: MSOP 043-20232**  
**Plt ID: 043-00058**  
**Reviewer: CarrieAnn Paukowits**  
**Application Date: October 8, 2004**

HAPs - Organics

Emission Factor in lb/MMcf	Benzene 2.10E-03	Dichlorobenzene 1.20E-03	Formaldehyde 7.50E-02	Hexane 1.80E+00	Toluene 3.40E-03
Potential Emission in tons/yr	0.0003	0.0002	0.011	0.268	0.0005

HAPs - Metals

Emission Factor in lb/MMcf	Lead 5.00E-04	Cadmium 1.10E-03	Chromium 1.40E-03	Manganese 3.80E-04	Nickel 2.10E-03	Total HAPs
Potential Emission in tons/yr	0.0001	0.0002	0.0002	0.0001	0.0003	0.281

Methodology is the same as page 1.

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

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

**Company Name: TG Missouri Corporation  
Address City IN Zip: 5331 Foundation Blvd., New Albany, IN 47150  
Permit Number: MSOP 043-20232  
Plt ID: 043-00058  
Reviewer: CarrieAnn Paukowits  
Application Date: October 8, 2004**

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)		EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING												
Submerged Arc	0	0		0.036	0.011			0.000	0.000	0.000	0.000	0.000
Metal Inert Gas (MIG)(carbon steel)	1	13		0.0055	0.0005			0.072	0.007	0.000	0.000	0.007
Stick (E7018 electrode)	1	13		0.0211	0.0009			0.274	0.012	0.000	0.000	0.012
Tungsten Inert Gas (TIG)(carbon steel)	0	0		0.0055	0.0005			0.000	0.000	0.000	0.000	0.000
Oxyacetylene(carbon steel)	0			0.0055	0.0005			0.000	0.000	0.000	0.000	0.000
FLAME CUTTING	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)**				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Oxyacetylene	0	0	15	0.1622	0.0005	0.0001	0.0003	0.000	0.000	0.000	0.000	0.000
Oxymethane	0			0.0815	0.0002		0.0002	0.000	0.000	0.000	0.000	0.000
Plasma**	0	0	150	0.0039				0.000	0.000	0.000	0.000	0.000
<b>EMISSION TOTALS</b>												
Potential Emissions lbs/hr								0.346	0.018	0.000	0.000	0.018
Potential Emissions lbs/day								8.30	0.437	0.00	0.00	0.437
Potential Emissions tons/year								1.51	0.080	0.00	0.00	0.080

**METHODOLOGY**

Calculations are conservative since these are maintenance welders and are seldom used.

\*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 r

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

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

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

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

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

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



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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

*Thomas W. Easterly*  
**Commissioner**

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

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

TO: Cindy Rollet  
TG Missouri Corporation  
2200 Platin Road  
Perryville, MO 63775

DATE: November 20, 2009

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

SUBJECT: Final Decision  
Minor Source Operating Permit Renewal  
043-28350-00058

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

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

A copy of the final decision and supporting materials has also been sent via standard mail to:  
John VanCleve - Vice President  
Don Niederkorn  
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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

*Thomas W. Easterly*  
**Commissioner**

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

November 20, 20090

TO: New Albany Floyd County Public Library

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

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

**Applicant Name: TG Missouri Coporation**  
**Permit Number: 043-28350-00058**

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

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

Enclosures  
Final Library.dot 11/30/07

# Mail Code 61-53

IDEM Staff	GHOTOPP 11/20/2009 TG Missouri Corporation 043-28350-00058 Final		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Cindy Rollet TG Missouri Corporation 2200 Plattin Road Perryville MO 63775 (Source CAATS) via confirmed delivery										
2		John VanCleve Vice President TG Missouri Corporation 5331 Foundation Blvd. New Albany IN 47150 (RO CAATS)										
3		Mr. Robert Bottom Paddlewheel Alliance P.O. Box 35531 Louisville KY 40232-5531 (Affected Party)										
4		Floyd County Commissioners 311-319 West 1st St, Rm 214 New Albany IN 47150 (Local Official)										
5		New Albany City Council and Mayors Office City County Building #316 New Albany IN 47150 (Local Official)										
6		New Albany Floyd Co Public Library 180 W Spring St New Albany IN 47150-3692 (Library)										
7		Floyd County Health Department 1917 Bono Rd New Albany IN 47150-4607 (Health Department)										
8		Ms. Sue Green 1985 Kopley Road Georgetown IN 47122 (Affected Party)										
9		Mr. Don Niederkorn EHS Technology Group, LLC P.O. Box 187 Miamisburg OH 45343 (Consultant)										
10												
11												
12												
13												
14												
15												

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
8			