



*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
(800) 451-6027  
www.IN.gov/idem

TO: Interested Parties / Applicant  
DATE: January 24, 2005  
RE: General Motors Corporation / 053-20360-00004  
FROM: Paul Dubenetzky  
Chief, Permits Branch  
Office of Air Quality

### Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days from 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-AM.dot 1/10/05



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
*We make Indiana a cleaner, healthier place to live.*

---

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Mr. David Prange  
General Motors Corporation  
P. O. Box 778  
Marion, Indiana 46952

January 24, 2005

Re: 053-20360-00004  
Third Administrative Amendment to  
Part 70 053-6852-00004

Dear Mr. Prange:

General Motors Corporation was issued a Part 70 permit on January 19, 1999 for an automotive metal parts manufacturing plant. A letter requesting a change to the permit was received on November 8, 2004. The requested change involves the removal of one (1) coal-fired Boiler UT-003 from the Part 70 permit. This boiler has been dismantled or physically removed from the process operation. The removal of this boiler will make the source an area source (see attached spreadsheets, Pages 1 through 3 of 3, submitted by the source).

The removal of this boiler applicable requirements does not constitute a relaxation of the permit terms, but rather constitute a "revision to descriptive information where revision will not trigger a new applicable requirement or violate a permit term" under 326 IAC 2-7-11. Therefore, the permit is hereby administratively amended as follows (additions are **bolded** and deletions are ~~struck through~~ for emphasis):

*Item (3) will be deleted from the Part 70 Permit, since it is being disconnected and removed from the process operation. Facilities will be re-numbered accordingly. This change will also be reflected in Section D.2 and Section D.3:*

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]  
[326 IAC 2-7-5(15)]

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

- (1) One (1) natural gas fired boiler, identified as UT-001, rated at 72 MMBtu/hr, and exhausting to stack 1.
- (2) One (1) natural gas fired boiler, firing No. 2 fuel oil as back-up, identified as UT-002, rated at 96 MMBtu/hr, exhausting to stack 2.
- (3) ~~One (1) spreader stoker coal-fired boiler, identified as UT-003, rated at 96 MMBtu/hr, using a multiple cyclone w/o fly ash reinjection for particulate control, and exhausting to stack 3.~~
- (4)(3) One (1) air atomized spray paint booth, identified as MT-001, used for maintenance

painting, equipped with dry filter to control overspray, and exhausting to stack 4.

- (5)(4) Temporary natural gas fired boiler(s), to be used as back-up, rated at: 40.0 million British thermal units per hour, total.

## SECTION D.1 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]

- (1) One (1) natural gas fired boiler, identified as UT-001, rated at 72 MMBtu/hr, and exhausting to stack 1.
- (2) One (1) natural gas fired boiler, firing No. 2 fuel oil as back-up, identified as UT-002, rated at 96 MMBtu/hr, exhausting to stack 2.
- (3) ~~One (1) spreader stoker coal fired boiler, identified as UT-003, rated at 96 MMBtu/hr, using a multiple cyclone w/o fly ash reinjection for particulate control, and exhausting to stack 3.~~

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

*The particulate matter emissions limit as required in the original Part 70 for the three boilers will stay the same at 0.482 lb/mmBtu for the two left boilers, because the Q before September 21, 1983 included Boiler UT-003:*

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.1.1 Particulate Matter (PM) [326 IAC 6-2-3]

- (a) Pursuant to 326 IAC 6-2-3 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from ~~each of the three boilers UT-001 and UT-002 and UT-003~~, shall be limited to 0.482 pounds per MMBtu heat input.

The limitation is based on the following equation:

$$Pt = \frac{C * a * h}{76.5 * Q^{0.75} * N^{0.25}}$$

Where: C = Maximum ground level concentration with respect to distance from the point source at the "critical" wind speed for level terrain. This shall equal 50 micrograms per cubic meter for a period not to exceed a sixty minute time period.

Pt = Pounds of particulate matter emitted per million Btu heat input (lb/mmBtu).

Q = Total source maximum operating capacity rating in mmBtu/hr heat input

N = Number of stacks in fuel burning operation.

a = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value 0.67 shall be used for Q less than or equal to 1,000 mmBtu/hr heat input.

h = Stack height in feet.

- (b) Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect

Heating), the PM emissions from boiler UT-001, shall be limited to 0.36 pounds per MMBtu heat input. The limitation is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where: Pt = Pounds of particulate matter emitted per million Btu (lb/mmBtu) heat input.

Q = Total source maximum operating capacity rating in million Btu per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

#### D.1.2 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1][326 IAC 7-2-1]

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~~(a) Pursuant to 326 IAC 326 7-1.1 (Sulfur Dioxide Emission Limitations), the SO<sub>2</sub> emissions from the one (1) boiler UT-003, shall not exceed 6.0 pounds per MMBtu heat input.~~

~~(b) Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from the one (1) ninety six (96.0) MMBtu per hour natural gas and No. 2 fuel oil-fired boiler, identified UT-002, shall not exceed five tenths (0.5) pounds per MMBtu heat input, when burning No. 2 fuel oil. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.~~

*Condition D.1.3 will remain in the permit, as PMP is applicable to emission units and control devices. The wording of 326 IAC 1-6-5 clarifies that the PMP includes emission units since the PMP can be changed to reduce excessive malfunctions in combustion and process equipment, as well as control devices.*

#### D.1.3 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)]

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A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~this facility~~ **these facilities**.

*SO<sub>2</sub> emissions and D.1.2 referenced in D.1.4 will be removed, as the source will demonstrate compliance with the boiler's fuel SO<sub>2</sub> limit by vendor certifications or vendor analysis of fuel delivered.*

### Compliance Determination Requirements

#### D.1.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

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The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM ~~and SO<sub>2</sub>~~ limits specified in Conditions D.1.1 ~~and D.1.2~~ shall be determined by a performance test conducted in accordance with Section C – Performance Testing.

#### ~~D.1.5 Sulfur Dioxide Emissions and Sulfur Content~~

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~~Pursuant to 326 IAC 7-2, the Permittee shall demonstrate that the coal sulfur content does not exceed six (6.0) pounds per MMBtu. Compliance shall be determined utilizing one of the following options:~~

~~(a) Coal sampling and analysis shall be performed using one of the following procedures:~~

~~(1) Minimum Coal Sampling Requirements and Analysis Methods [326 IAC 3-7-2(b)(3)]:~~

- ~~(A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system;~~
- ~~(B) Coal shall be sampled at least three (3) times per day and at least one (1) time per eight (8) hour period unless no coal is bunkered during the preceding eight (8) hour period;~~
- ~~(C) Minimum sample size shall be five hundred (500) grams;~~
- ~~(D) Samples shall be composited and analyzed at the end of each calendar month;~~
- ~~(E) Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), (e); or~~
- ~~(2) Sample and analyze the coal pursuant to 326 IAC 3-7-2(a); or~~
- ~~(3) Sample and analyze the coal pursuant to 326 IAC 3-7-3; or~~
- ~~(b) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5-1 may be used as the means for determining compliance with the emission limitations in 326 IAC 7-2. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(e)]~~
- ~~(c) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6, which is conducted with such frequency as to generate the amount of information required by (a) or (b) above. [326 IAC 7-2-1(b)]~~

~~A determination of noncompliance pursuant to either of the methods specified in (a), (b), or (c) above shall not be refuted by evidence of compliance pursuant to the other method.~~

**D.1.6 D.1.5 Sulfur Dioxide Emissions and Sulfur Content**

For the one (1) natural gas and No. 2 fuel oil-fired boiler, identified UT-002, compliance shall be determined utilizing one of the following options, when burning No. 2 fuel oil.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:
- (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
  - (3) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and

- (4) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the ninety six (96.0) MMBtu per hour boiler using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

#### ~~D.1.7~~ **Particulate Matter**

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~~The mechanical multicyclone for PM control shall be in operation at all times when the boiler UT-003 is in operation.~~

### **Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

#### ~~D.1.8~~ **D.1.6** Particulate Matter (PM)

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- ~~(a)~~ **(a)** Daily visible emission notations (non-Method 9) of the coal fired boiler, identified as UT-003, stack exhaust shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- ~~(b)~~ **(a)** Visible emission notations (**non-method 9**) of the one (1) natural gas fired boiler, firing No. 2 fuel oil as back up, identified as UT-002, stack exhaust shall be performed once per shift during normal daylight operations while combusting fuel oil. A trained employee shall record whether emissions are normal or abnormal.
- ~~(c)~~ **(b)** For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- ~~(d)~~ **(c)** In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- ~~(e)~~ **(d)** A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- ~~(f)~~ **(e)** The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

#### ~~D.1.9~~ **Multicyclone Inspections**

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- ~~(a)~~ An inspection shall be performed weekly of the ductwork and annually of the mechanical multicyclone controlling the particulate matter emission from the one (1) boiler UT-003, when this boiler is in operation.
- ~~(b)~~ Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

### **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### ~~D.1.10~~ **D.1.7** Record Keeping Requirements

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- ~~(a)~~ To document compliance with Conditions 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 PM and SO<sub>2</sub> emission limits established in D.1.1.~~

- ~~(1) Calendar dates covered in the compliance determination period;~~
- ~~(2) Actual coal usage since last compliance determination period;~~
- ~~(3) Sulfur content, heat content, and ash content;~~
- ~~(4) Sulfur dioxide emission rates.~~

~~(b)~~ **(a)** To document compliance with Conditions D.1.2 and D.1.6 **5**, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limits established in Conditions D.1.2 and D.1.6 **5**,

- (1) Calendar dates covered in the compliance determination period;
- (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions **in pounds per million Btu**;

If the fuel supplier certification is used to demonstrate compliance, when burning alternate fuels and not determining compliance pursuant to 326 IAC 3-7-4, the following, as a minimum, shall be maintained:

- (3) Fuel supplier certifications;
- (4) The name of the fuel supplier; and
- (5) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

~~(c)~~ **(b)** To document compliance with Conditions ~~D.1.8~~ **D.1.6** and ~~D.1.9~~ the Permittee shall maintain records of daily visible emission notations, **of the UT-002 stack exhaust while combusting fuel oil.** ~~weekly inspections of the multicyclone ductwork and annual inspections of the multicyclone.~~

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

#### ~~D.1.11~~ **D.1.8** Reporting Requirements

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- ~~(a)~~ **(a)** A quarterly summary of the information to document compliance with Conditions D.1.1 and D.1.2 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.
- ~~(b)~~ **(b)** The natural gas boiler certification 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 its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired boiler certification does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Facility Description [326 IAC 2-7-5(15)]

**(3)** One (1) air atomized spray paint booth, identified as MT-001, used for maintenance painting, equipped with dry filter to control overspray, and exhausting to stack 4.

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

**SECTION D.3 FACILITY OPERATION CONDITIONS**

Facility Description [326 IAC 2-7-5(15)]

**(4)** Temporary natural gas fired boiler(s), to be used as back-up, rated at: 40.0 million British thermal units per hour, total.

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

*The following reporting form for Boiler UT-003 is not required anymore and will be deleted, since this boiler is being removed:*

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE DATA SECTION**

**Part 70 Quarterly Report**

Source Name: ~~General Motors Corporation, MMF, Marion Plant~~  
 Source Address: ~~2400 West Second Street, Marion, IN 46952~~  
 Mailing Address: ~~P.O. Box 778, Marion, IN 46952~~  
 Part 70 Permit No.: ~~T053-6852-00004~~  
 Facility: ~~Boiler UT-003~~  
 Parameter: ~~SO2~~  
 Limit: ~~6.0 pounds per MMBtu heat input~~

YEAR:

Month	Coal Usage (tons)	Monthly Average Sulfur Content (%)	Monthly Average Ash Content (%)	Monthly Average Heat Content (MMBtu/lb)	SO2 Emission Rate (lbs/MMBtu)
1					
2					
3					
Deviations					

~~9~~ No deviation occurred in this quarter.

~~\_\_\_\_\_ 9 \_\_\_\_\_ Deviation/s occurred in this quarter.~~  
~~\_\_\_\_\_ Deviation has been reported on:~~

~~\_\_\_\_\_ Submitted by: \_\_\_\_\_~~  
~~\_\_\_\_\_ Title / Position: \_\_\_\_\_~~  
~~\_\_\_\_\_ Signature: \_\_\_\_\_~~  
~~\_\_\_\_\_ Date: \_\_\_\_\_~~  
~~\_\_\_\_\_ Phone: \_\_\_\_\_~~

All other conditions of the permit shall remain unchanged and in effect.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5.  
If you have any questions on this matter, please contact Aida De Guzman, at (800) 451-6027, press 0 and ask for extension (3-4972), or dial (317) 233-4972.

Sincerely,

Original signed by  
Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

Attachments  
APD

cc: File - Grant County  
U.S. EPA, Region V  
Grant County Health Department  
Air Compliance Section Inspector –Marc Goldman  
Compliance Data Section  
Administrative and Development



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## PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

**General Motors Corporation, MFD, Marion Plant  
2400 West Second Street  
Marion, Indiana 46952**

(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 in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T053-6852-00004	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: January 19, 1999
1 <sup>st</sup> Administrative Amendment No.: 053-13552-00004, issued on January 4, 2001; Reopening No.: 053-13296-00004, issued on January 3, 2002; 2 <sup>nd</sup> Administrative Amendment No.: 053-15368-00004, issued on April 1, 2002; 1 <sup>st</sup> Minor Permit Modification No.: 053-17617-00004, issued on August 15, 2003; 2 <sup>nd</sup> Minor Permit Modification No.: 053-17418-00004, issued September 29, 2003;	
3 <sup>rd</sup> Administrative Amendment No.: 053-20360-00004	Pages Affected: 2, 3, 4, 28, 29, 30, 31, 32, 32a
Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: January 24, 2005

## TABLE OF CONTENTS

### A SOURCE SUMMARY

- A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]
- A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]
- A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)]
- A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

### B GENERAL CONDITIONS

- B.1 Permit No Defense [326 IAC 2-1-10] [IC 13]
- B.2 Definitions [326 IAC 2-7-1]
- B.3 Permit Term [326 IAC 2-7-5(2)]
- B.4 Enforceability [326 IAC 2-7-7(a)]
- B.5 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]
- B.6 Severability [326 IAC 2-7-5(5)]
- B.7 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]
- B.8 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)]
- B.9 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]
- B.10 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)]
- B.11 Annual Compliance Certification [326 IAC 2-7-6(5)]
- B.12 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3)and (13)][326 IAC 2-7-6(1)and(6)]
- B.13 Emergency Provisions [326 IAC 2-7-16]
- B.14 Permit Shield [326 IAC 2-7-15]
- B.15 Multiple Exceedances [326 IAC 2-7-5(1)(E)]
- B.16 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]
- B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination
- B.18 Permit Renewal [326 IAC 2-7-4]
- B.19 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]
- B.20 Permit Revision Under Economic Incentives and Other Programs
- B.21 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-7-20(b)]
- B.22 Operational Flexibility [326 IAC 2-7-20]
- B.23 Construction Permit Requirement [326 IAC 2]
- B.24 Inspection and Entry [326 IAC 2-7-6(2)]
- B.25 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-7-11]
- B.26 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

### C SOURCE OPERATION CONDITIONS

#### **Emission Limitations and Standards [326 IAC 2-7-5(1)]**

- C.1 Particulate Matter Emission Limitations For Processes with Process Weight Rates
- C.2 Opacity [326 IAC 5-1]
- C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]
- C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]
- C.5 Fugitive Dust Emissions [326 IAC 6-4]
- C.6 Operation of Equipment [326 IAC 2-7-6(6)]
- C.7 Stack Height [326 IAC 1-7]
- C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

#### **Testing Requirements [326 IAC 2-7-6(1)]**

- C.9 Performance Testing [326 IAC 3-6]

#### **Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]**

- C.10 Compliance Schedule [326 IAC 2-7-6(3)]
- C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- C.12 Maintenance of Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]
- C.13 Monitoring Methods [326 IAC 3]

**Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]**

- C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
- C.15 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]
- C.16 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5]
- C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]

**Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

- C.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)]
- C.19 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]
- C.20 General Record Keeping Requirements [326 IAC 2-7-5(3)]
- C.21 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

**Stratospheric Ozone Protection**

- C.22 Compliance with 40 CFR 82 and 326 IAC 22-1

**Part 2 MACT Application Submittal Requirement**

- C.23 Application Requirements for Section 112(j) of the Clean Air Act [40 CFR 63.52(e)] [40 CFR 63.56 (a)] [40 CFR 63.9(b)] [326 IAC 2-7-12]

**D.1 FACILITY OPERATION CONDITIONS – Two (2) boilers UT-001, UT-002**

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

- D.1.1 Particulate Matter (PM) [326 IAC 6-2-3]
- D.1.2 Sulfur Dioxide (SO<sub>2</sub>)
- D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

**Compliance Determination Requirements**

- D.1.4 Testing Requirements [326 IAC 2-7-6(1),(6)]
- D.1.5 Sulfur Dioxide Emissions and Sulfur Content

**Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

- D.1.6 Particulate Matter (PM)

**Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

- D.1.7 Record Keeping Requirements
- D.1.8 Reporting Requirements

**D.2 FACILITY OPERATION CONDITIONS - Maintenance Spray Booth, MT-001**

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

- D.2.1 Particulate Matter (PM) [326 IAC 6-3-2]

**Compliance Determination Requirements**

- D.2.2 Testing Requirements [326 IAC 2-7-6(1),(6)]
- D.2.3 Particulate Matter (PM)

**Certification**

**Emergency/Deviation Occurrence Report**  
**Quarterly Compliance Monitoring Report**  
**Quarterly Compliance Monitoring Report**

## 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 through A.3 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 2-7-4(c)] [326 IAC 2-7-5(15)]

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The Permittee owns and operates an automotive metal parts source.

Responsible Official: David Prange  
Source Address: 2400 West Second Street, Marion, Indiana 46952  
Mailing Address: P.O. Box 778, Marion, Indiana 46952  
SIC Code: 3465  
County Location: Grant  
County Status: Attainment for all criteria pollutants  
Source Status: Part 70 Permit Program  
Major Source, under PSD Rules;  
Minor Source, Section 112 of the Clean Air Act

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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

- (1) One (1) natural gas fired boiler, identified as UT-001, rated at 72 MMBtu/hr, and exhausting to stack 1.
- (2) One (1) natural gas fired boiler, firing No. 2 fuel oil as back-up, identified as UT-002, rated at 96 MMBtu/hr, exhausting to stack 2.
- (3) One (1) air atomized spray paint booth, identified as MT-001, used for maintenance painting, equipped with dry filter to control overspray, and exhausting to stack 4.
- (4) Temporary natural gas fired boiler(s), to be used as back-up, rated at: 40.0 million British thermal units per hour, total.

### A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

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This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.
- (2) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight.

## SECTION D.1 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]

- (1) One (1) natural gas fired boiler, identified as UT-001, rated at 72 MMBtu/hr, and exhausting to stack 1.
- (2) One (1) natural gas fired boiler, firing No. 2 fuel oil as back-up, identified as UT-002, rated at 96 MMBtu/hr, exhausting to stack 2.

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

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.1.1 Particulate Matter (PM) [326 IAC 6-2-3]

- (a) Pursuant to 326 IAC 6-2-3 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from boiler UT-002, shall be limited to 0.482 pounds per MMBtu heat input.

The limitation is based on the following equation:

$$Pt = \frac{C * a * h}{76.5 * Q^{0.75} * N^{0.25}}$$

Where: C = Maximum ground level concentration with respect to distance from the point source at the "critical" wind speed for level terrain. This shall equal 50 micrograms per cubic meter for a period not to exceed a sixty minute time period.

Pt = Pounds of particulate matter emitted per million Btu heat input (lb/mmBtu).

Q = Total source maximum operating capacity rating in mmBtu/hr heat input

N = Number of stacks in fuel burning operation.

a = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value 0.67 shall be used for Q less than or equal to 1,000 mmBtu/hr heat input.

h = Stack height in feet.

- (b) Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from boiler UT-001, shall be limited to 0.36 pounds per MMBtu heat input. The limitation is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where: Pt = Pounds of particulate matter emitted per million Btu (lb/mmBtu) heat input.

Q = Total source maximum operating capacity rating in million Btu per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is

contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

**D.1.2 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1][326 IAC 7-2-1]**

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Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from the one (1) ninety six (96.0) MMBtu per hour natural gas and No. 2 fuel oil-fired boiler, identified UT-002, shall not exceed five tenths (0.5) pounds per MMBtu heat input, when burning No. 2 fuel oil. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

**D.1.3 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)]**

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

**Compliance Determination Requirements**

**D.1.4 Testing Requirements [326 IAC 2-7-6(1),(6)]**

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The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C – Performance Testing.

**D.1.5 Sulfur Dioxide Emissions and Sulfur Content**

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For the one (1) natural gas and No. 2 fuel oil-fired boiler, identified UT-002, compliance shall be determined utilizing one of the following options, when burning No. 2 fuel oil.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
  - (3) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
  - (4) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the ninety six (96.0) MMBtu per hour boiler using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

## **Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

### **D.1.6 Particulate Matter (PM)**

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- (a) Visible emission notations (non-method 9) of the one (1) natural gas fired boiler, firing No. 2 fuel oil as back up, identified as UT-002, stack exhaust shall be performed once per shift during normal daylight operations while combusting fuel oil. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

## **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

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

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- (a) To document compliance with Conditions D.1.2 and D.1.5 , the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limits established in Conditions D.1.2 and D.1.5 ,
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions in pounds per million Btu;

If the fuel supplier certification is used to demonstrate compliance, when burning alternate fuels and not determining compliance pursuant to 326 IAC 3-7-4, the following, as a minimum, shall be maintained:

  - (3) Fuel supplier certifications;
  - (4) The name of the fuel supplier; and
  - (5) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (b) To document compliance with Condition D.1.6 the Permittee shall maintain records of daily visible emission notations, of the UT-002 stack exhaust while combusting fuel oil.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.8 Reporting Requirements

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The natural gas boiler certification 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 its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired boiler certification does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

## SECTION D.2 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]

- (3) One (1) air atomized spray paint booth, identified as MT-001, used for maintenance painting, equipped with dry filter to control overspray, and exhausting to stack 4.

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

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.2.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the maintenance spray booth, MT-001, shall not exceed the allowable PM emission rate based on the following equation:

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

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

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

### Compliance Determination Requirements

#### D.2.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

#### D.2.3 Particulate Matter (PM)

Pursuant to CP 053-3684-00004, issued on July 12, 1994, the particulate matter overspray from the paint booth shall be considered in compliance provided that the overspray is not visibly detectable at the exhaust stack or accumulate on the rooftops or on the ground.

## SECTION D.3 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]

- (4) Temporary natural gas fired boiler(s), to be used as back-up, rated at: 40.0 million British thermal units per hour, total.

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

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.3.1 Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a), the allowable PM emission rate from the Temporary natural gas fired boiler(s), to be used as back-up, rated at 40.0 million British thermal units per hour, total shall not exceed 0.247pounds per million British thermal units heat input:

$$Pt = 1.09/Q^{0.26}$$

where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/mmBtu) heat input

Q = Total source maximum operating capacity rating in million British thermal units per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

### Compliance Determination Requirements

#### D.3.2 Natural Gas

The temporary natural gas fired boiler(s), to be used as back-up, rated at 40.0 million British thermal units per hour, total, shall burn only natural gas. Any change or modification that would allow these boilers to burn any fuel other than natural gas will need prior approval from the IDEM, OAQ.

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

There are no specific Compliance Monitoring Requirements applicable to these emission units.

### Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

#### D.3.3 Record Keeping Requirements

- (a) Pursuant to 40 CFR 60.48c(g), the owner or operator shall record and maintain records of the amounts of each fuel combusted during each day.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

# HAPs Emission Calculations

FID	CAS	HAP Name	%	Potential Annual Product Usage (lbs)	Potential Annual Tons HAP	Chemical Category	Tradename
342131	78-93-3	2-BUTANONE	5	38	0.001	Paint	1120 ULTRA SPRAY ENAMEL
342131	1330-20-7	XYLENE	10	38	0.002	Paint	1120 ULTRA SPRAY ENAMEL
344254	67-56-1	METHANOL	0.1	10000	0.005	Paint	139 ORANGE QUICK DRY ENAMEL
344254	85-44-9	PHTHALIC ANHYDRIDE	5.6	10000	0.280	Paint	139 ORANGE QUICK DRY ENAMEL
344254	1330-20-7	XYLENE	47.05	10000	2.353	Paint	139 ORANGE QUICK DRY ENAMEL
194845	67-56-1	METHANOL	0.1	1255	0.001	Paint	139-1 QUICK DRY ENAMEL
194845	85-44-9	PHTHALIC ANHYDRIDE	5.6	1255	0.035	Paint	139-1 QUICK DRY ENAMEL
194845	1330-20-7	XYLENE	37.7	1255	0.237	Paint	139-1 QUICK DRY ENAMEL
347497	100-41-4	BENZENE, ETHYL-	0.2	40	0.000	Paint	234 N234 BENWOOD INTERIOR WOOD FINISHES PENETRATING STAIN
347497	1330-20-7	XYLENE	1	40	0.000	Paint	234 N234 BENWOOD INTERIOR WOOD FINISHES PENETRATING STAIN
300819	100-41-4	BENZENE, ETHYL-	2	30	0.000	Paint	3101 KRYLON FLUORESCENT INDOOR/OUTDOOR PAINT, RED ORANGE
300819	110-54-3	HEXANE	1	30	0.000	Paint	3101 KRYLON FLUORESCENT INDOOR/OUTDOOR PAINT, RED ORANGE
300819	1330-20-7	XYLENE	12	30	0.002	Paint	3101 KRYLON FLUORESCENT INDOOR/OUTDOOR PAINT, RED ORANGE
153069	100-41-4	BENZENE, ETHYL-	2	200	0.002	Solvent	3812S ENAMEL REDUCER
153069	108-88-3	TOLUENE	12	200	0.012	Solvent	3812S ENAMEL REDUCER
153069	1330-20-7	XYLENE	7	200	0.007	Solvent	3812S ENAMEL REDUCER
345015	100-41-4	BENZENE, ETHYL-	0.5	24	0.000	Paint	A49H201 WOOD CLASSICS INTERIOR WOOD OIL STAIN, GOLDEN OAK
345015	1330-20-7	XYLENE	2	24	0.000	Paint	A49H201 WOOD CLASSICS INTERIOR WOOD OIL STAIN, GOLDEN OAK
357653	100-41-4	BENZENE, ETHYL-	0.4	16	0.000	Paint	A49H201/HARVEST WHEAT WOOD CLASSICS INTERIOR WOOD OIL STAIN
357653	1330-20-7	XYLENE	2	16	0.000	Paint	A49H201/HARVEST WHEAT WOOD CLASSICS INTERIOR WOOD OIL STAIN
357649	100-41-4	BENZENE, ETHYL-	0.4	12	0.000	Paint	A49N208/BURN. WALNUT WOOD CLASSICS INTERIOR WOOD OIL STAIN
357649	107-21-1	ETHYLENE GLYCOL	1	12	0.000	Paint	A49N208/BURN. WALNUT WOOD CLASSICS INTERIOR WOOD OIL STAIN
357649	1330-20-7	XYLENE	2	12	0.000	Paint	A49N208/BURN. WALNUT WOOD CLASSICS INTERIOR WOOD OIL STAIN
176084	1330-20-7	XYLENE	1	0	0.000	Fuel	AMOCO PREMIER DIESEL FUEL (Primarily for mobile sources: tank loss insignificant)
176084	91-20-3	NAPHTHALENE	1	0	0.000	Fuel	AMOCO PREMIER DIESEL FUEL (Primarily for mobile sources: tank loss insignificant)
29729	71-43-2	BENZENE	4	0	0.000	Fuel	AMOCO REGULAR LEAD-FREE GASOLINE (Used only for mobile sources: tank loss insignificant)
29729	100-41-4	BENZENE, ETHYL-	2	0	0.000	Fuel	AMOCO REGULAR LEAD-FREE GASOLINE (Used only for mobile sources: tank loss insignificant)
29729	1634-04-4	ETHER, tert-BUTYL METHYL	18	0	0.000	Fuel	AMOCO REGULAR LEAD-FREE GASOLINE (Used only for mobile sources: tank loss insignificant)
29729	110-54-3	HEXANE	5	0	0.000	Fuel	AMOCO REGULAR LEAD-FREE GASOLINE (Used only for mobile sources: tank loss insignificant)
29729	108-88-3	TOLUENE	22	0	0.000	Fuel	AMOCO REGULAR LEAD-FREE GASOLINE (Used only for mobile sources: tank loss insignificant)
29729	1330-20-7	XYLENE	10	0	0.000	Fuel	AMOCO REGULAR LEAD-FREE GASOLINE (Used only for mobile sources: tank loss insignificant)
347359	78-93-3	2-BUTANONE	5	400	0.010	Paint	ANTI-RUST ENAMEL
347359	108-88-3	TOLUENE	10	400	0.020	Paint	ANTI-RUST ENAMEL
347359	1330-20-7	XYLENE	55	400	0.110	Paint	ANTI-RUST ENAMEL
345211	100-41-4	BENZENE, ETHYL-	0.8	16	0.000	Paint	B26V43 WOOD CLASSICS FASTDRY SANDING SEALER, CLEAR
345211	1330-20-7	XYLENE	2	16	0.000	Paint	B26V43 WOOD CLASSICS FASTDRY SANDING SEALER, CLEAR
324770	100-41-4	BENZENE, ETHYL-	2	400	0.004	Paint	B50NZ6 KEM KROMIK METAL PRIMER (VOC COMPLYING), BROWN
324770	108-88-3	TOLUENE	5	400	0.010	Paint	B50NZ6 KEM KROMIK METAL PRIMER (VOC COMPLYING), BROWN
324770	1330-20-7	XYLENE	10	400	0.020	Paint	B50NZ6 KEM KROMIK METAL PRIMER (VOC COMPLYING), BROWN
323346	100-41-4	BENZENE, ETHYL-	0.3	400	0.001	Paint	B54BZ11 INDUSTRIAL ENAMEL - VOC COMPLYING, BLACK
323346	1330-20-7	XYLENE	2	400	0.004	Paint	B54BZ11 INDUSTRIAL ENAMEL - VOC COMPLYING, BLACK
324778	100-41-4	BENZENE, ETHYL-	0.3	800	0.001	Paint	B54EZ39 INDUSTRIAL ENAMEL - VOC COMPLYING, SAFETY ORANGE
324778	1330-20-7	XYLENE	2	800	0.008	Paint	B54EZ39 INDUSTRIAL ENAMEL - VOC COMPLYING, SAFETY ORANGE
304237	100-41-4	BENZENE, ETHYL-	0.4	400	0.001	Paint	B54RZ38 INDUSTRIAL ENAMEL - VOC COMPLYING, SAFETY RED
304237	1330-20-7	XYLENE	2	400	0.004	Paint	B54RZ38 INDUSTRIAL ENAMEL - VOC COMPLYING, SAFETY RED
225807	100-41-4	BENZENE, ETHYL-	0.4	40	0.000	Paint	B54TZ104 INDUSTRIAL ENAMEL - VOC COMPLYING, ULTRADEEP BASE
225807	1330-20-7	XYLENE	2	40	0.000	Paint	B54TZ104 INDUSTRIAL ENAMEL - VOC COMPLYING, ULTRADEEP BASE
353276	100-41-4	BENZENE, ETHYL-	0.4	40	0.000	Paint	B54TZ104/POWERHOUSE GREEN CUSTOM INDUSTRIAL ENAMEL - VOC COMPLYING
353276	107-21-1	ETHYLENE GLYCOL	1	40	0.000	Paint	B54TZ104/POWERHOUSE GREEN CUSTOM INDUSTRIAL ENAMEL - VOC COMPLYING

# HAPs Emission Calculations

FID	CAS	HAP Name	%	Potential Annual Product Usage (lbs)	Potential Annual Tons HAP	Chemical Category	Tradename
353276	1330-20-7	XYLENE	2	40	0.000	Paint	B54TZ104/POWERHOUSE GREEN CUSTOM INDUSTRIAL ENAMEL - VOC COMPLYING
304239	100-41-4	BENZENE, ETHYL-	0.3	800	0.001	Paint	B54WZ101 INDUSTRIAL ENAMEL - VOC COMPLYING, PURE WHITE
304239	1330-20-7	XYLENE	2	800	0.008	Paint	B54WZ101 INDUSTRIAL ENAMEL - VOC COMPLYING, PURE WHITE
353792	100-41-4	BENZENE, ETHYL-	0.3	2400	0.004	Paint	B54WZ113 INDUSTRIAL ENAMEL - VOC COMPLYING, DEEP BASE
353792	1330-20-7	XYLENE	2	2400	0.024	Paint	B54WZ113 INDUSTRIAL ENAMEL - VOC COMPLYING, DEEP BASE
304216	100-41-4	BENZENE, ETHYL-	0.4	1600	0.003	Paint	B54YZ37 INDUSTRIAL ENAMEL - VOC COMPLYING, SAFETY YELLOW
304216	1330-20-7	XYLENE	2	1600	0.016	Paint	B54YZ37 INDUSTRIAL ENAMEL - VOC COMPLYING, SAFETY YELLOW
348274	111-77-3	ETHANOL, 2-(2-METHOXYETHOXY)-	3	40	0.001	Paint	B66W201/CM5927 DTM ACRYLIC COATING SEMI-GLOSS (WATERBORNE), STEEL GRAY
348274	107-21-1	ETHYLENE GLYCOL	2	40	0.000	Paint	B66W201/CM5927 DTM ACRYLIC COATING SEMI-GLOSS (WATERBORNE), STEEL GRAY
214915	100-42-5	STYRENE	18	1	0.000	Putty	BONDTITE XL MICROCEL LIGHT
173786	107-21-1	ETHYLENE GLYCOL	4.9	1600	0.039	Herbicide	BUSAN 30WB
347033	67-56-1	METHANOL	25	3	0.000	Solvent	CARB & CHOKE CLEANER
347033	108-88-3	TOLUENE	32	3	0.000	Solvent	CARB & CHOKE CLEANER
345147	108-10-1	2-PENTANONE, 4-METHYL-	1.1	3500	0.019	Solvent	CC GOVERNMENT FORMULA D2-95%
345147	67-56-1	METHANOL	16	3500	0.280	Solvent	CC GOVERNMENT FORMULA D2-95%
342570	106-89-8	PROPANE, 1-CHLORO-2,3-EPOXY-	6.01	120	0.004	Adhesive	EUCO 700 PART A
358053	112-34-5	ETHANOL, 2-(2-BUTOXYETHOXY)-	15	360	0.027	Oil	FORMULASHELL BRAKE FLUID
358053	107-21-1	ETHYLENE GLYCOL	0.05	360	0.000	Oil	FORMULASHELL BRAKE FLUID
41027	100-42-5	STYRENE	10.7	200	0.011	Adhesive	FREEMAN TUF-FIL ALUMINUM
331195	101-68-8	ISOCYANIC ACID, METHYLENEDI-p-PHENY	30	5	0.001	Misc	GREAT STUFF
355024	108-88-3	TOLUENE	10	13000	0.650	Solvent	H672D
332588	110-54-3	HEXANE	80	53	0.021	Solvent	HEXANES
321260	110-54-3	HEXANE	11.7	2.7	0.000	Solvent	HY-0171-0350 CHAIN LUBE
184368	50-00-0	FORMALDEHYDE	0.1	9000	0.005	Floor Coat	JX-4000 CONCRETE SEALER
200890	100-41-4	BENZENE, ETHYL-	20	100	0.010	Solvent	KLEAN-STRIP XYLOL
200890	1330-20-7	XYLENE	85	100	0.043	Solvent	KLEAN-STRIP XYLOL
223630	123-31-9	HYDROQUINONE	1	6.3	0.000	Adhesive	LOCTITE QUICK SET 404 INSTANT ADHESIVE 46551
113311	111-42-2	ETHANOL, 2,2'-IMINODI-	3	38000	0.570	Cleaner	LT 401 STEAM CLEANER
349741	108-10-1	2-PENTANONE, 4-METHYL-	3	2400	0.036	Paint	M25BL1 AISLE MARKING PAINT, BLACK
349741	67-56-1	METHANOL	1	2400	0.012	Paint	M25BL1 AISLE MARKING PAINT, BLACK
349741	108-95-2	PHENOL	2	2400	0.024	Paint	M25BL1 AISLE MARKING PAINT, BLACK
189129	78-93-3	2-BUTANONE	10	38	0.002	Paint	M69W1 STRIPPABLE COATING, WHITE
189129	108-10-1	2-PENTANONE, 4-METHYL-	10	38	0.002	Paint	M69W1 STRIPPABLE COATING, WHITE
189129	108-88-3	TOLUENE	4	38	0.001	Paint	M69W1 STRIPPABLE COATING, WHITE
322315	67-56-1	METHANOL	99	21	0.010	Solvent	METHANOL
239175	78-93-3	2-BUTANONE	80	70	0.028	Solvent	OATEY CLEANER
220508	78-93-3	2-BUTANONE	40	95	0.019	Adhesive	OATEY CPVC SOLVENT CEMENT
223257	78-93-3	2-BUTANONE	15	25	0.002	Adhesive	ORIGINAL CONTACT CEMENT
223257	108-88-3	TOLUENE	55	25	0.007	Adhesive	ORIGINAL CONTACT CEMENT
308218	101-68-8	ISOCYANIC ACID, METHYLENEDI-p-PHENY	15	5	0.000	Solvent	OZONE FRIENDLY GREAT STUFF
330120	123-31-9	HYDROQUINONE	1	5	0.000	Adhesive	PACER TECHNOLOGY (ALL SIZES & GRADES)
346780	101-68-8	ISOCYANIC ACID, METHYLENEDI-p-PHENY	95	10	0.005	Putty	PATCH PASTE TCC-5120A
135149	121-69-7	ANILINE, N,N-DIMETHYL-	10	5	0.000	Putty	POLYPATCH
135149	100-42-5	STYRENE	50	5	0.001	Putty	POLYPATCH
353863	101-68-8	ISOCYANIC ACID, METHYLENEDI-p-PHENY	62.5	5	0.002	Putty	POLY-PIPE-WRAP
261745	84-74-2	PHTHALIC ACID, DIBUTYL ESTER	30	5	0.001	Solvent	SPOTCHECK PENETRANT SKL-SP AEROSOL
231799	91-20-3	NAPHTHALENE	5	5	0.000	Oil	STA-BIL
353157	91-20-3	NAPHTHALENE	57	100	0.029	Herbicide	TREFLAN HFP HERBICIDE
358140	78-93-3	2-BUTANONE	5	50	0.001	Paint	ULTRA ENAMEL 1132 PACIFIC BLUE

# HAPs Emission Calculations

FID	CAS	HAP Name	%	Potential Annual Product Usage (lbs)	Potential Annual Tons HAP	Chemical Category	Tradename
358140	100-41-4	BENZENE, ETHYL-	5	50	0.001	Paint	ULTRA ENAMEL 1132 PACIFIC BLUE
358140	1330-20-7	XYLENE	10	50	0.003	Paint	ULTRA ENAMEL 1132 PACIFIC BLUE
191136	1330-20-7	XYLENE	75	50	0.019	Paint	UNI PAINT MARKER PX-20, PX-21, PX-30, PX-31
345295	1309-64-4	ANTIMONY COMPOUNDS	10	n/a	0.000	Adhesive	Uniseal 119 (Antimony compounds cannot be emitted in this process-adhesive is a nonheated solid)
					<b>5.1</b>	<b>Total HAPs Excluding Boiler Fuels</b>	
			Emission Factor* lb/mmcf-gas lb/10 <sup>12</sup> Btu-oil	Potential Annual Volume of Fuel	Potential Annual Tons HAP	Chemical Category	Tradename
		Benz(a) anthracene	1.8E-06	1442	0.000	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Benzene	2.1E-03	1442	0.002	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Chrysene	1.8E-06	1442	0.000	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Fluoranthene	3.0E-06	1442	0.000	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Formeldehyde	7.5E-02	1442	0.054	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Hexane	1.8E+00	1442	1.298	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Napthalene	6.6E-04	1442	0.000	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Arsenic Compounds	2.0E-04	1442	0.000	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Beryllium Compounds	1.25E-05	1442	0.000	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Cadmium Compounds	1.0E-03	1442	0.001	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Chromium Compounds (including Cr+6)	1.4E-03	1442	0.001	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Cobalt Compounds	8.4E-05	1442	0.000	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Copper Compounds	8.5E-04	1442	0.001	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Manganese Compounds	3.8E-04	1442	0.000	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Mercury Compounds	2.6E-04	1442	0.000	Fuel	Natural Gas [MDR= (72 + 96 + 40 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Nickel Compounds	2.1E-03	1442	0.002	Fuel	Natural Gas [MDR= (72 + 96 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		Selenium Compounds	2.4E-05	1442	0.000	Fuel	Natural Gas [MDR= (72 + 96 MMBtu/hr)(8760 hrs/yr)(1 mmCF/1020 MMBtu)] in mmCF
		As	4.2	0.841	0.002	Fuel	#2 Fuel Oil [MDR= (96 MMBtu/hr)(8760 hrs/yr) / 10 <sup>6</sup> ] in 10 <sup>12</sup> Btu
		Be	2.5	0.841	0.001	Fuel	#2 Fuel Oil [MDR= (96 MMBtu/hr)(8760 hrs/yr) / 10 <sup>6</sup> ] in 10 <sup>12</sup> Btu
		Cd	11	0.841	0.005	Fuel	#2 Fuel Oil [MDR= (96 MMBtu/hr)(8760 hrs/yr) / 10 <sup>6</sup> ] in 10 <sup>12</sup> Btu
		Cr	67	0.841	0.028	Fuel	#2 Fuel Oil [MDR= (96 MMBtu/hr)(8760 hrs/yr) / 10 <sup>6</sup> ] in 10 <sup>12</sup> Btu
		Pb	8.9	0.841	0.004	Fuel	#2 Fuel Oil [MDR= (96 MMBtu/hr)(8760 hrs/yr) / 10 <sup>6</sup> ] in 10 <sup>12</sup> Btu
		Mn	14	0.841	0.006	Fuel	#2 Fuel Oil [MDR= (96 MMBtu/hr)(8760 hrs/yr) / 10 <sup>6</sup> ] in 10 <sup>12</sup> Btu
		Hg	3	0.841	0.001	Fuel	#2 Fuel Oil [MDR= (96 MMBtu/hr)(8760 hrs/yr) / 10 <sup>6</sup> ] in 10 <sup>12</sup> Btu
		Ni	170	0.841	0.071	Fuel	#2 Fuel Oil [MDR= (96 MMBtu/hr)(8760 hrs/yr) / 10 <sup>6</sup> ] in 10 <sup>12</sup> Btu
		Polycyclic Organic Matter	22	0.841	0.009	Fuel	#2 Fuel Oil [MDR= (96 MMBtu/hr)(8760 hrs/yr) / 10 <sup>6</sup> ] in 10 <sup>12</sup> Btu
		Formeldehyde (HCOH)	405	0.841	0.170	Fuel	#2 Fuel Oil [MDR= (96 MMBtu/hr)(8760 hrs/yr) / 10 <sup>6</sup> ] in 10 <sup>12</sup> Btu
					<b>1.7</b>	<b>Total HAPs from Boiler Fuels</b>	
*Emission factors from AP-42							
Note: PTE Haps for the 96 mmBtu/hr boiler when using fuel oil are at insignificant levels					<b>6.7</b>	<b>Total Potential HAPs with regular 24 hour, 5 day/week, 48 weeks per year production</b>	
					<b>9.3</b>	<b>Grand Total All HAPs Assuming 7days/week 52 weeks/year operation (Minor Source Limit = 10 tons/yr single HAP, 25 tns/yr aggregate)</b>	