



Joseph E. Kernan  
Governor

Lori F. Kaplan  
Commissioner

January 7, 2005

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

TO: Interested Parties / Applicant

RE: Meridian Automotive Systems, Inc / 003-20376-00059

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

### Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this approval is effective immediately, unless a petition for stay of effectiveness is filed and granted, 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 4-21.5-3-7 and IC 13-15-7-3 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 Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice.** The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures  
FNPER-MOD.dot 9/16/03



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

Joseph E. Kernan  
Governor

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Commissioner

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January 7, 2005

Mr. Wayne Fulghum  
Meridian Automotive Systems, Inc.  
13811 Roth Road  
Grabill, Indiana 46741

Re: 003-20376-00059  
Second Minor Source Modification to:  
Part 70 Operating Permit No.: T 003-5942-00059

Dear Mr. Fulghum:

Meridian Automotive Systems, Inc. was issued Part 70 Operating Permit T 003-5942-00059 on March 26, 2002 for a high-pressure fiberglass-reinforced plastics manufacturing and painting source. An application to modify the source was received on November 16, 2004. Pursuant to 326 IAC 2-7-10.5 the following emission units are approved for construction at the source:

- (a) One (1) 1,000-ton HPM Corporation injection molding press, known as PR-1573, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.
- (b) One (1) 1,000-ton HPM Corporation injection molding press, known as PR-1574, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit  
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.
6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

This minor source modification authorizes construction of the new emission units. Operating conditions shall be incorporated into the Part 70 Operating Permit as a minor permit modification in accordance with 326 IAC 2-7-12. Operation is not approved until the minor permit modification has been issued.

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 contact Edward A. Longenberger, c/o OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, at 631-691-3395, ext. 20 or in Indiana at 1-800-451-6027 (ext 631-691-3395).

Sincerely,

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

Attachments  
EAL/MES

cc: File - Allen County  
Allen County Health Department  
Air Compliance Section Inspector – Patrick Burton  
Compliance Branch  
Administrative and Development Section  
Technical Support and Modeling - Michele Boner



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**MINOR SOURCE MODIFICATION  
PART 70 OPERATING PERMIT  
OFFICE OF AIR QUALITY**

**Meridian Automotive Systems, Inc.  
14123 Roth Road  
Grabill, Indiana 46741-0189**

(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 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.

Second Minor Source Modification No.: 003-20376-00059	Conditions Affected: A.2, D.1.2, D.2.1, D.2.3
Issued by: Original Signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: January 7, 2005

## TABLE OF CONTENTS

<b>A</b>	<b>SOURCE SUMMARY</b> .....	<b>3</b>
A.1	General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]	
A.2	Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]	
<b>D.1</b>	<b>FACILITY OPERATION CONDITIONS: Painting and Compounding</b> .....	<b>7</b>
	<b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b>	
D.1.2	PSD Minor Limit [326 IAC 2-2]	
<b>D.2</b>	<b>FACILITY OPERATION CONDITIONS: Compounding and Reinforced Molding</b> .....	<b>9</b>
	<b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b>	
D.2.1	PSD Minor Limit [326 IAC 2-2]	
	<b>Quarterly Report Form</b> .....	<b>12</b>

## 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.4 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)] [326 IAC 2-7-1(22)]

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The Permittee owns and operates a stationary high-pressure fiberglass-reinforced plastics manufacturing and painting source.

Responsible Official:	General Manager
Source Address:	14123 Roth Road, Grabill, Indiana 46741
Mailing Address:	14123 Roth Road, Grabill, Indiana 46741
General Source Phone Number:	219-627-3612
SIC Code:	3089
County Location:	Allen
Source Location Status:	Basic Nonattainment for 8-hour ozone Attainment for all remaining criteria pollutants
Source Status:	Part 70 Permit Program Minor Source, under PSD rules; Major Source, under nonattainment area rules; Major 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:

#### Painting Operations

- (a) One (1) prime spray booth, known as SB-A, equipped with HVLP spray applicators or with equivalent or better spray applicators and dry filters for overspray control, installed in September 1993 and modified in May 2003, exhausted through stack G, capacity: 13.9 gallons of paint per hour.
- (b) One (1) spray booth, known as SB-B, equipped with air atomization spray guns and dry filters for overspray control, installed in June 1973, exhausted through stacks I, J, and K, capacity: 10 gallons of paint per hour.
- (c) One (1) spray booth, known as SB-C24, equipped with electrostatic spray guns and dry filters for overspray control, installed in 1982, exhausted through stacks D and E, capacity: 3 gallons of paint per hour.
- (d) One (1) spray booth, known as SB-C32, equipped with electrostatic spray guns and dry filters for overspray control, installed in 1982, exhausted through stacks B and C, capacity: 4 gallons of paint per hour.
- (e) One (1) prime touch up, known as TU-A, equipped with air atomization spray guns and dry filters for overspray control, installed prior to 1980, exhausted through stack H, maximum capacity: 0.25 gallons of paint per hour.

- (f) One (1) prime touch up, known as TU-B, equipped with air atomization spray guns and dry filters for overspray control, installed prior to 1980, exhausted through stack L, maximum capacity: 0.25 gallons of paint per hour.
- (g) One (1) touch up, known as TU-FNSH, equipped with air atomization spray guns and dry filters for overspray control, installed prior to 1980, exhausted through stack P, capacity: 1 gallon of paint per hour.

### **Compounding and Reinforced Molding Operations**

- (h) Two (2) SMC manufacturing lines, known as Machine 1 and Machine 2, reconstructed and relocated in 2003, with a capacity of 12,000 pounds of SMC per hour, each, and one (1) SMC manufacturing line, known as Machine 3, with a capacity of 2,670 pounds of SMC per hour, consisting of:
  - (1) sixteen (16) resin storage tanks, with storage capacities between 2,000 and 6,300 gallons, each,
  - (2) one (1) small add material handling area,
  - (3) one (1) SMC mix room, consisting of four (4) mixing tanks, seven (7) holding tanks, and six (6) dynamic mixers,
  - (4) three (3) SMC machines,
  - (5) one (1) SMC maturation area, and
  - (6) one (1) dust collection system, exhausted to Stack SV-01.
- (i) One (1) Hannifan 200 ton reinforced plastic molding press, known as PR-0206, installed in 1975, capacity: 141 pounds of fiberglass reinforced plastic parts per hour.
- (j) One (1) Hannifan 200 ton reinforced plastic molding press, known as PR-0213, installed in 1976, capacity: 141 pounds of fiberglass reinforced plastic parts per hour.
- (k) One (1) Erie 400 ton reinforced plastic molding press, known as PR-0419, installed in 1969 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (l) One (1) Erie 400 ton reinforced plastic molding press, known as PR-0420, installed in 1969 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (m) One (1) Drake 600 ton reinforced plastic molding press, known as PR-0617, installed in 1968, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (n) One (1) Erie 600 ton reinforced plastic molding press, known as PR-0618, installed in 1968 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (o) One (1) W-W-M 1200 ton vacuum assisted reinforced plastic molding press, known as PRV-1222, installed in 1973, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
- (p) One (1) W-W-M 1200 ton vacuum assisted reinforced plastic molding press, known as PRV-1223, installed in 1973, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.

- (q) One (1) W-W-M 1200 ton reinforced plastic molding press, known as PRV-1250, installed in 1978 and rebuilt in 1985, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
- (r) One (1) Erie 1500 ton vacuum assisted reinforced plastic molding press, known as PRV-1558, installed in 1977, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (s) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, known as PRV-2024, installed in 1975, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (t) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, known as PRV-2025, installed in 1975, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (u) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, known as PRV-2059, installed in 1984, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (v) One (1) 2500 ton reinforced plastic molding press, known as PR-2566, installed in 2000, capacity: 435 pounds of fiberglass reinforced plastic parts per hour. This press was previously known as PRV-2572.
- (w) One (1) 2500 ton reinforced plastic molding press, known as PR-2567, installed in 2000, capacity: 435 pounds of fiberglass reinforced plastic parts per hour. This press was previously known as PRV-2573.
- (x) One (1) W-W-M 4400 ton vacuum assisted reinforced plastic molding press, known as PRV-4470, installed in 1995, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (y) One (1) boiler, known as BLR-B, firing natural gas as primary fuel and propane or diesel fuel as backup, installed in 1974, rated at 8.4 million British thermal units per hour.
- (z) One (1) boiler, known as BLR-A, firing natural gas as primary fuel and propane or diesel fuel as backup, installed in 2000, exhausted through stack M, rated at: 16.7 million British thermal units per hour.
- (aa) One (1) French 600 ton vacuum assisted reinforced plastic molding press, known as PRV-0648, installed in 1978 and rebuilt in 1990, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (bb) One (1) French 800 ton vacuum assisted reinforced plastic molding press, known as PR-0849, installed in 1978 and rebuilt in 1990, capacity: 188 pounds of fiberglass reinforced plastic parts per hour.
- (cc) One (1) EEMCO 1,000 ton vacuum assisted reinforced plastic molding press, known as PRV-1026, installed in 1977 and rebuilt in 1990, capacity: 275 pounds of fiberglass reinforced plastic parts per hour.
- (dd) One (1) HPM Corporation Injection Molding Press, known as PR-1571, installed in 1998, capacity: 188 pounds of fiberglass reinforced plastic parts per hour.
- (ee) One (1) 2,000-ton HPM Corporation injection molding press, known as PR-1572, capacity: 300 pounds of fiberglass reinforced plastic parts per hour.
- (ff) One (1) 1,000-ton HPM Corporation injection molding press, known as PR-1573, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.

- (gg) One (1) 1,000-ton HPM Corporation injection molding press, known as PR-1574, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.
- (hh) One (1) fiberglass reinforced composites touch up spray booth, known as TU-SPLASH, equipped with air atomization spray guns and dry filters for overspray control, exhausted through stack R, maximum capacity: 0.336 gallons of paint per hour.

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

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

- (a) Pursuant to CP 003-3105-00059, issued on September 7, 1993, Best Available Control Technology (BACT) for the one (1) prime spray booth, identified as SB-A, has been determined to be:
- (1) The method of application shall be performed with high-volume-low pressure (HVLP) spray applicators;
  - (2) The use of lower VOC paints (less than 3.5 lb VOC per gallon of coating excluding water).
- (b) Pursuant to 326 IAC 8-1-6, Best Available Control Technology (BACT) for the two (2) spray booths, identified as SB-C24 and SB-C32, has been determined to be:
- (1) The VOC input delivered to the applicators including cleanup solvents shall be limited to a total of no more than sixty-six (66) tons per twelve (12) consecutive month period;
  - (2) The method of application at the spray booths shall be done with electrostatic applicators;
  - (3) The use of low (25-40%) and medium (41-50%) solids content coatings, and
  - (4) The following management and work practices shall apply:
    - (i) Operator training course.
    - (ii) Spray gun cleaning.
    - (iii) The cleanup solvent containers used to transport solvent from drums to work stations be closed containers having soft gasketed closures.
    - (iv) The application equipment operators shall be instructed and trained on the methods and practices utilized to minimize spillage on the floor and over application.
    - (v) Storage containers used to store VOC and/or HAPs containing materials shall be kept covered when not in use.
    - (vi) Cleanup solvents will be reused in the process as much as possible to reduce hazardous waste and the related impact on the environment.

### **D.1.2 PSD Minor Limit [326 IAC 2-2]**

- (a) The VOC applied to the applicators from the four (4) spray booths (SB-A, SB-B, SB-C24 and SB-C32), the four (4) touch-up booths (TU-A, TU-B, TU-FNSH and TU-SPLASH), the three (3) SMC manufacturing lines, known as Machine 1, Machine 2 and Machine 3, the eighteen (18) Reinforced Plastic Molding Presses, installed between 1968 and 1998 (PR-0206, PR-0213, PR-0419, PR-0420, PR-0617, PR-0618, PRV-0648, PRV-0849, PRV-1026, PRV-1222, PRV-1223, PR-1250, PRV-1558, PRV-2024, PRV-2025, PRV-2059, PRV-4470, PR-1571), the two (2) 2500 ton Reinforced Plastic Molding Presses, constructed in 2000 (PR-2566 and PR-2567), and the injection molding presses PR-1572, PR-1573 and PR-1574, shall be limited such that the total VOC emissions are no more than 246.1 tons per twelve (12) consecutive month period.

The SMC closed molding operations performed by all molding presses shall use the standard US EPA AP-42 three percent (3.0%) VOC emission factor to determine compliance with the VOC emission limit.

- (b) The VOC emission limit expressed in Condition D.1.2 (a) combined with the full potential to emit VOC from the two (2) boilers and the limited actual emissions not to exceed 3.23 tons per year from other insignificant activities shall limit the total source-wide VOC emissions to less than two hundred and fifty (250) tons per twelve (12) consecutive month period. Compliance with this limit makes the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 40 CFR 52.21 not applicable.

D.1.3 Hazardous Air Pollutants [326 IAC 2-4.1-1]

- (a) The input of SMC to the two (2) SMC manufacturing lines, known as Machine 1 and Machine 2, reconstructed and relocated in 2003, shall be limited such that the worst case potential to emit a single HAP (styrene) is less than ten (10) tons per twelve (12) consecutive month period, each, with compliance determined at the end of each month, to make the requirements of 326 IAC 2-4.1-1 not applicable.
- (b) For the purposes of determining the throughput limit, the following HAP emission factors will be used for the processes located at the two (2) SMC manufacturing lines, known as Machine 1 and Machine 2:
  - (1) Resin Storage Tanks: 0.059 lbs/ton of SMC produced.
  - (2) Mixing Station: 0.19 lbs/ton of SMC produced.
  - (3) SMC Machine: 0.30 lbs/ton of SMC produced.
  - (4) SMC Holding Area: 0.0018 lbs/ton SMC produced.

D.1.4 Volatile Organic Compounds [326 IAC 8-1-6]

- (a) The input of SMC to the two (2) SMC manufacturing lines, known as Machine 1 and Machine 2, reconstructed and relocated in 2003, shall be limited such that the potential to emit VOC is less than twenty-five (25) tons per twelve (12) consecutive month period, each, with compliance determined at the end of each month, to make the requirements of 326 IAC 8-1-6 not applicable.
- (b) For the purposes of determining the throughput limit, the following VOC emission factors will be used for the processes located at the two (2) SMC manufacturing lines, known as Machine 1 and Machine 2:
  - (1) Resin Storage Tanks: 0.059 lbs/ton of SMC produced.
  - (2) Mixing Station: 0.19 lbs/ton of SMC produced.
  - (3) SMC Machine: 0.30 lbs/ton of SMC produced.
  - (4) SMC Holding Area: 0.0018 lbs/ton SMC produced.
- (c) Any change or modification that would increase the potential to emit VOC from Machine 3 to twenty-five (25) tons per year or more shall require prior approval from IDEM, OAQ.

## SECTION D.2

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]: Reinforced Molding Operations

- (i) One (1) Hannifan 200 ton reinforced plastic molding press, known as PR-0206, installed in 1975, capacity: 141 pounds of fiberglass reinforced plastic parts per hour.
- (j) One (1) Hannifan 200 ton reinforced plastic molding press, known as PR-0213, installed in 1976, capacity: 141 pounds of fiberglass reinforced plastic parts per hour.
- (k) One (1) Erie 400 ton reinforced plastic molding press, known as PR-0419, installed in 1969 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (l) One (1) Erie 400 ton reinforced plastic molding press, known as PR-0420, installed in 1969 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (m) One (1) Drake 600 ton reinforced plastic molding press, known as PR-0617, installed in 1968, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (n) One (1) Erie 600 ton reinforced plastic molding press, known as PR-0618, installed in 1968 and rebuilt in 1986, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (o) One (1) W-W-M 1200 ton vacuum assisted reinforced plastic molding press, known as PRV-1222, installed in 1973, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
- (p) One (1) W-W-M 1200 ton vacuum assisted reinforced plastic molding press, known as PRV-1223, installed in 1973, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
- (q) One (1) W-W-M 1200 ton reinforced plastic molding press, known as PRV-1250, installed in 1978 and rebuilt in 1985, capacity: 338 pounds of fiberglass reinforced plastic parts per hour.
- (r) One (1) Erie 1500 ton vacuum assisted reinforced plastic molding press, known as PRV-1558, installed in 1977, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (s) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, known as PRV-2024, installed in 1975, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (t) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, known as PRV-2025, installed in 1975, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (u) One (1) W-W-M 2000 ton vacuum assisted reinforced plastic molding press, known as PRV-2059, installed in 1984, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (v) One (1) 2500 ton reinforced plastic molding press, known as PR-2566, installed in 2000, capacity: 435 pounds of fiberglass reinforced plastic parts per hour. This press was previously known as PRV-2572.
- (w) One (1) 2500 ton reinforced plastic molding press, known as PR-2567, installed in 2000, capacity: 435 pounds of fiberglass reinforced plastic parts per hour. This press was previously known as PRV-2573.

**Facility Description [326 IAC 2-7-5(15)]: Reinforced Molding Operations**

- (x) One (1) W-W-M 4400 ton vacuum assisted reinforced plastic molding press, known as PRV-4470, installed in 1995, capacity: 263 pounds of fiberglass reinforced plastic parts per hour.
- (aa) One (1) French 600 ton vacuum assisted reinforced plastic molding press, known as PRV-0648, installed in 1978 and rebuilt in 1990, capacity: 219 pounds of fiberglass reinforced plastic parts per hour.
- (bb) One (1) French 800 ton vacuum assisted reinforced plastic molding press, known as PR-0849, installed in 1978 and rebuilt in 1990, capacity: 188 pounds of fiberglass reinforced plastic parts per hour.
- (cc) One (1) EEMCO 1,000 ton vacuum assisted reinforced plastic molding press, known as PRV-1026, installed in 1977 and rebuilt in 1990, capacity: 275 pounds of fiberglass reinforced plastic parts per hour.
- (dd) One (1) HPM Corporation Injection Molding Press, known as PR-1571, installed in 1998, capacity: 188 pounds of fiberglass reinforced plastic parts per hour.
- (ee) One (1) 2,000-ton HPM Corporation injection molding press, known as PR-1572, capacity: 300 pounds of fiberglass reinforced plastic parts per hour.
- (ff) One (1) 1,000-ton HPM Corporation injection molding press, known as PR-1573, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.
- (gg) One (1) 1,000-ton HPM Corporation injection molding press, known as PR-1574, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.
- (hh) One (1) fiberglass reinforced composites touch up spray booth, known as TU-SPLASH, equipped with air atomization spray guns and dry filters for overspray control, exhausted through stack R, maximum capacity: 0.336 gallons of paint per hour.

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

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

**D.2.1 PSD Minor Limit [326 IAC 2-2]**

- (a) The VOC applied to the applicators from the four (4) spray booths (SB-A, SB-B, SB-C24 and SB-C32), the four (4) touch-up booths (TU-A, TU-B, TU-FNSH and TU-SPLASH), the three (3) SMC manufacturing lines, known as Machine 1, Machine 2 and Machine 3, the eighteen (18) Reinforced Plastic Molding Presses, installed between 1968 and 1998 (PR-0206, PR-0213, PR-0419, PR-0420, PR-0617, PR-0618, PRV-0648, PRV-0849, PRV-1026, PRV-1222, PRV-1223, PR-1250, PRV-1558, PRV-2024, PRV-2025, PRV-2059, PRV-4470, PR-1571), the two (2) 2500 ton Reinforced Plastic Molding Presses, constructed in 2000 (PR-2566 and PR-2567), and the injection molding presses PR-1572, PR-1573 and PR-1574, shall be limited such that the total VOC emissions are no more than 246.1 tons per twelve (12) consecutive month period.

The SMC closed molding operations performed by all molding presses shall use the standard US EPA AP-42 three percent (3.0%) VOC emission factor to determine compliance with the VOC emission limit.

- (b) This VOC emission limit combined with the full potential to emit VOC from the two (2) boilers and 3.23 tons per year from insignificant activities shall limit the total source-wide VOC emissions to less than two hundred and fifty (250) tons per twelve (12) consecutive month period. Compliance with this limit makes the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 40 CFR 52.21 not applicable.

D.2.2 Hazardous Air Pollutants [326 IAC 2-4.1-1]

Pursuant to 326 IAC 2-4.1-1 (New Source Toxics Control), the use of resins, cleanup solvents, and other material containing hazardous air pollutants (HAPs) from the two (2) 2,500 ton reinforced plastic molding presses, known as PR-2566 and PR-2567, shall be limited such that the potential to emit (PTE) a single HAP shall be less than ten (10) tons per twelve (12) consecutive month period, each. Therefore, the requirements of 326 IAC 2-4.1-1 do not apply.

D.2.3 Volatile Organic Compounds [326 IAC 8-1-6]

Any change or modification which would increase the potential to emit VOC to twenty-five (25) tons per year or more from any of the reinforced plastic molding presses (PR-0206, PR-0213, PR-0419, PR-0420, PR-0617, PR-0618, PRV-1222, PRV-1223, PRV-1250, PRV-1558, PRV-2024, PRV-2025, PRV-2059, PR-2566, PR-2567, PRV-4470, PRV-0648, PR-0849, PRV-1026, PR-1571, PR-1572, PR-1573 or PR-1574) shall obtain prior approval from IDEM, OAQ.

D.2.4 General Provisions Relating to NESHAP [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the reinforced plastic composites production affected source described in 40 CFR 63.5790(b), except when otherwise specified in 40 CFR 63 Subpart WWWW.
- (b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.

D.2.5 National Emissions Standards for Hazardous Air Pollutants for Reinforced Plastic Composites Production [40 CFR Part 63.5805, Subpart WWWW] [326 IAC 20]

- (a) The reinforced plastic composites production affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Reinforced Plastic Composites Production, (40 CFR 63, Subpart WWWW), effective April 21, 2003. Pursuant to this rule, the Permittee must comply with Subpart WWWW by April 21, 2006, or accept and meet an enforceable HAP emissions limit below the major source threshold prior to April 21, 2006. Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.
- (b) The following emissions units comprise the affected source that is subject to 40 CFR 63, Subpart WWWW:
- (1) Open molding;
  - (2) Closed molding;
  - (3) Centrifugal casting;
  - (4) Continuous lamination;
  - (5) Polymer casting;

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

**Part 70 Quarterly Report**

Source Name: Meridian Automotive Systems  
Source Address: 14123 Roth Road, Grabill, Indiana 46741  
Mailing Address: 14123 Roth Road, Grabill, Indiana 46741  
Part 70 Permit No.: T 003-5942-00059  
Facilities: Four (4) spray booths (SB-A, SB-B, SB-C24 and SB-C32), the four (4) touch-up booths (TU-A, TU-B, TU-FNSH and TU-SPLASH), the three (3) SMC manufacturing lines, known as Machine 1, Machine 2 and Machine 3, the eighteen (18) Reinforced Plastic Molding Presses, installed between 1968 and 1998 (PR-0206, PR-0213, PR-0419, PR-0420, PR-0617, PR-0618, PRV-0648, PRV-0849, PRV-1026, PRV-1222, PRV -1223, PR-1250, PRV-1558, PRV-2024, PRV-2025, PRV-2059, PRV-4470, PR-1571), the two (2) 2500 ton Reinforced Plastic Molding Presses, constructed in 2000 (PR-2566 and PR-2567), and the injection molding presses PR-1572, PR-1573 and PR-1574  
Parameter: VOC emissions  
Limit: Less than 246.1 tons per twelve (12) consecutive month period, total.

YEAR: \_\_\_\_\_

Month	VOC (Tons)	VOC (Tons)	VOC (Tons)
	This Month	Previous 11 Months	12 Month Total

9 No deviation occurred in this month.

9 Deviation/s occurred in this month.

Deviation has been reported on:

Submitted by:

Title/Position:

Signature:

Date:

Phone:

Attach a signed certification to complete this report.

## Indiana Department of Environmental Management Office of Air Quality

### Technical Support Document (TSD) for a Part 70 Minor Source Modification and a Minor Permit Modification

#### Source Background and Description

<b>Source Name:</b>	<b>Meridian Automotive Systems, Inc.</b>
<b>Source Location:</b>	<b>14123 Roth Road, Grabill, Indiana 46741-0189</b>
<b>County:</b>	<b>Allen</b>
<b>SIC Code:</b>	<b>3089</b>
<b>Operation Permit No.:</b>	<b>T 003-5942-00059</b>
<b>Operation Permit Issuance Date:</b>	<b>March 26, 2002</b>
<b>Minor Source Modification No.:</b>	<b>MSM 003-20376-00059</b>
<b>Minor Permit Modification No.:</b>	<b>MPM 003-19915-00059</b>
<b>Permit Reviewer:</b>	<b>Edward A. Longenberger</b>

The Office of Air Quality (OAQ) has reviewed a modification application from Meridian Automotive Systems, Inc. relating to the construction and operation of the following emission units:

- (a) One (1) 1,000-ton HPM Corporation injection molding press, known as PR-1573, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.
- (b) One (1) 1,000-ton HPM Corporation injection molding press, known as PR-1574, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.

#### History

Meridian Automotive Systems, Inc. was issued a Part 70 permit for a high-pressure fiberglass-reinforced plastics manufacturing and painting source on March 26, 2002. On November 16, 2004, Meridian Automotive Systems, Inc. submitted an application to the OAQ requesting to add two (2) injection molding presses to their existing plant. There are no controls or stacks associated with these injection molding presses.

The proposed injection molding presses have been folded into the existing PSD minor limit in Conditions D.1.2 and D.2.1. As part of this modification, some corrections were made to the facility descriptions for existing operations. Also, the units which were permitted by the previous modification were added to the PSD minor limit, since the source wishes to retain its status as a minor source under 326 IAC 2-2.

#### Enforcement Issue

There are no enforcement actions pending.

#### Stack Summary

No new stacks are proposed.

#### Recommendation

The staff recommends to the Commissioner that the Part 70 Minor Source Modification and Minor Permit Modification be approved. This recommendation is based on the following facts and

conditions:

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

An application for the purposes of this review was received on November 16, 2004.

### Emission Calculations

See page 1 of Appendix A of this document for detailed emissions calculations.

### Potential To Emit of Modification

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

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

<b>Pollutant</b>	<b>Potential To Emit (tons/year)</b>
PM	-
PM <sub>10</sub>	-
SO <sub>2</sub>	-
VOC	6.83
CO	-
NO <sub>x</sub>	-

  

<b>HAPs</b>	<b>Potential To Emit (tons/year)</b>
Styrene	6.83
TOTAL HAPs	6.83

### Justification for Modification

The Part 70 Operating Permit is being modified through a Part 70 Minor Source Modification. This modification is being performed pursuant to 326 IAC 2-7-10.5(d)(5), because the modification is subject to a NESHAP (40 CFR 63, Subpart WWWW), and the NESHAP is the most stringent applicable requirement. The proposed operating conditions shall be incorporated into the Part 70 Operating Permit as a Minor Permit Modification (MPM 003-19915-00059) in accordance with 326 IAC 2-7-12(b)(1).

### County Attainment Status

The source is located in Allen County.

Pollutant	Status
PM <sub>10</sub>	Attainment
SO <sub>2</sub>	Attainment
NO <sub>2</sub>	Attainment
1-Hour Ozone	Attainment
8-Hour Ozone	Basic Nonattainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the ozone standards. Allen County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for nonattainment new source review.
- (b) Allen County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

**Source Status**

Existing Source PSD or Emission Offset Definition (emissions after controls, based upon 8,760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	Less than 250
PM <sub>10</sub>	Less than 250
SO <sub>2</sub>	Less than 100
VOC	Limited to less than 250
CO	Less than 100
NO <sub>x</sub>	Less than 100

- (a) This existing source is a not major stationary source under 326 IAC 2-2 (PSD), because no attainment regulated pollutant is emitted at a rate of two-hundred fifty (250) tons per year or more, and it is not one of the twenty-eight (28) listed source categories.

- (b) This existing source is a major stationary source under the nonattainment area new source review rules because a nonattainment regulated pollutant (VOC) is emitted at a rate of one-hundred (100) tons per year or more.
- (c) These emissions are based upon the Technical Support Documents for T 003-5942-00059 and SSM 003-16292-00059.

**Potential to Emit of Modification After Issuance**

Pollutant	PM (tons/yr)	PM <sub>10</sub> (tons/yr)	SO <sub>2</sub> (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NO <sub>x</sub> (tons/yr)
Proposed Modification	-	-	-	6.83	-	-
Nonattainment Area Significant Level	25	15	40	40	100	40

This modification to an existing major stationary source is not major because the emissions increase is less than the significant levels. Therefore, the nonattainment new source review requirements do not apply.

**Federal Rule Applicability**

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification.
- (b) The two (2) injection molding machines (PR-1573 and PR-1574) will be part of the existing affected source which is subject to the National Emission Standards for Hazardous Air Pollutants for Reinforced Plastic Composites Production (326 IAC 14, 326 IAC 20-1-1, and 40 CFR 63, Subpart WWWW). A copy of the MACT is currently available on the U.S. EPA website, <http://www.epa.gov/ttn/atw/rpc/rpcpg.html>.

The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source described in this section except when otherwise specified in 40 CFR 63 Subpart WWWW.

This rule has a future compliance date; therefore, the specific details of the rule and how the Permittee will demonstrate compliance are not provided in the permit. The Permittee shall submit an application for a significant permit modification on or before July 21, 2005, which is nine (9) months prior to the compliance date for the MACT (April 21, 2006). The application will specify the option or options for the emission limitations and standards and methods for determining compliance chosen by the Permittee. At that time, IDEM, OAQ will include the specific details of the rule and how the Permittee will demonstrate compliance. In addition, pursuant to 40 CFR 63, Subpart WWWW, the Permittee shall submit:

- (1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) no later than August 19, 2003.
- (2) If complying with organic HAP emissions limit averaging provisions, the Permittee shall submit a Notification of Compliance Status, containing the information specified in 40 CFR 63.9(h), no later than May 21, 2007.

- (3) If complying with organic HAP content limits, application equipment requirements, or organic HAP emissions limit other than organic HAP emissions limit averaging, the Permittee shall submit a Notification of Compliance Status, containing the information specified in 40 CFR 63.9(h), no later than May 21, 2006.
- (4) If complying by using an add-on control device, the Permittee shall submit:
  - (A) A notification of intent to conduct a performance test as specified in 40 CFR 63.9(e), at least 60 calendar days before the performance test is scheduled to begin.
  - (B) A notification of the date for the CMS performance evaluation, if required, as specified in 40 CFR 63.9(g), by the date of submission of the notification of intent to conduct a performance test.
  - (C) A Notification of Compliance Status as specified in 40 CFR 63.9(h), no later than 60 calendar days after the completion of the add-on control device performance test and CMS performance evaluation.

#### **State Rule Applicability - Individual Facilities**

##### 326 IAC 2-1.1-5 (Air quality requirements)

Allen County has been designated as basic nonattainment for the 8-hour ozone standard, and the source-wide potential VOC emissions are greater than one hundred (100) tons per year. Therefore, this source is an existing major source pursuant to 326 IAC 2-1.1-5 for nonattainment new source review. This modification is a minor modification to an existing major source because the emissions increase is less than the VOC significant level of forty (40) tons per year.

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

This existing source was a minor source under 326 IAC 2-2 because the potential VOC emissions were limited to less than two-hundred fifty (250) tons per year. On June 15, 2004, the U.S. EPA designated Allen County as basic nonattainment for the new 8-hour ozone standard. However, since Allen County is still designated as attainment for the 1-hour ozone standard, this source remains a minor source under 326 IAC 2-2 (PSD).

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

The new injection molding presses (PR-1573 and PR-1574) are specifically regulated by a standard under Section 112(d) of the Clean Air Act (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production, 40 CFR 63, Subpart WWWW), therefore, the requirements of 326 IAC 2-4.1 do not apply.

##### 326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

The potential VOC emissions from each of the two (2) injection molding presses, known as PR-1573 and PR-1574, are less than twenty-five (25) tons per year, each. Therefore, the requirements of 326 IAC 8-1-6 are not applicable to either facility. Any change or modification which would increase the potential to emit VOC from PR-1573 or PR-1574 to twenty-five (25) tons per year or more shall require prior approval from IDEM, OAQ.

#### **Proposed Changes**

Meridian Automotive Systems, Inc.  
Grabill, Indiana  
Permit Reviewer: EAL/MES

Page 6 of 9  
Minor Source Modification: 003-20376-00059  
Minor Permit Modification: 003-19915-00059

The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language appears in **bold**):

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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- (ee) One (1) 2,000-ton HPM Corporation injection molding press, known as PR-1572, capacity: 300 pounds of fiberglass reinforced plastic parts per hour.
- (ff) **One (1) 1,000-ton HPM Corporation injection molding press, known as PR-1573, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.**
- (gg) **One (1) 1,000-ton HPM Corporation injection molding press, known as PR-1574, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.**
- (hh ff) One (1) fiberglass reinforced composites touch up spray booth, known as TU-SPLASH, equipped with air atomization spray guns and dry filters for overspray control, exhausted through stack R, maximum capacity: 0.336 gallons of paint per hour.

D.1.2 PSD Minor Limit [326 IAC 2-2] [~~40 CFR 52.21~~]

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- (a) The VOC applied to the applicators from the four (4) spray booths (SB-A, SB-B, SB-C24 and SB-C32), the four (4) touch-up booths (TU-A, TU-B, TU-FNSH and TU-SPLASH), the **three (3) ~~two (2)~~ SMC manufacturing lines**, known as Machine 1, ~~and~~ Machine 2 **and Machine 3**, the eighteen (18) Reinforced Plastic Molding Presses, installed between 1968 and 1998 (PR-0206, PR-0213, PR-0419, PR-0420, PR-0617, PR-0618, PRV-0648, PRV-0849, PRV-1026, PRV-1222, PRV -1223, PR-1250, PRV-1558, PRV-2024, PRV-2025, PRV-2059, PRV-4470, PR-1571), the two (2) 2500 ton Reinforced Plastic Molding Presses, constructed in 2000 (PR-2566 and PR-2567), **and the injection molding presses PR-1572, PR-1573 and PR-1574**, shall be limited such that the total VOC emissions are no more than 246.1 tons per twelve (12) consecutive month period.

The SMC closed molding operations performed by **all the eighteen (18) Reinforced Plastic** molding presses shall use the standard US EPA AP-42 three percent (3.0%) VOC emission factor to determine compliance with the VOC emission limit.

- (b) The VOC emission limit expressed in Condition D.1.2 (a) combined with the full potential to emit VOC from the two (2) boilers and the limited actual emissions not to exceed 3.23 tons per year from other insignificant activities shall limit the total source-wide VOC emissions to less than two hundred and fifty (250) tons per twelve (12) consecutive month period. Compliance with this limit makes the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 40 CFR 52.21 not applicable.

## SECTION D.2 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]: Reinforced Molding Operations

- (dd) One (1) HPM Corporation Injection Molding Press, known as PR-1571, installed in 1998, capacity: 188 pounds of fiberglass reinforced plastic parts per hour.
- (ee) One (1) 2,000-ton HPM Corporation injection molding press, known as PR-1572, capacity: 300 pounds of fiberglass reinforced plastic parts per hour.
- (ff) One (1) 1,000-ton HPM Corporation injection molding press, known as PR-1573, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.**
- (gg) One (1) 1,000-ton HPM Corporation injection molding press, known as PR-1574, capacity: 200 pounds of fiberglass reinforced plastic parts per hour.**
- (hh ff) One (1) fiberglass reinforced composites touch up spray booth, known as TU-SPLASH, equipped with air atomization spray guns and dry filters for overspray control, exhausted through stack R, maximum capacity: 0.336 gallons of paint per hour.

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

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

#### D.2.1 PSD Minor Limit [326 IAC 2-2] ~~[40 CFR 52.21]~~

- (a) The VOC delivered to the applicators from the four (4) spray booths (SB-A, SB-B, SB-C24 and SB-C32), the four (4) touch-up booths (TU-A, TU-B, TU-FNSH and TU-SPLASH), ~~the two (2) polyester products raw materials compounding lines (SMC-MFG1 and SMC-MFG3),~~ **the three (3) SMC manufacturing lines, known as Machine 1, Machine 2 and Machine 3,** the eighteen (18) Reinforced Plastic Molding Presses, installed between 1968 and 1998 (PR-0206, PR-0213, PR-0419, PR-0420, PR-0617, PR-0618, PRV-0648, PRV-0849, PRV-1026, PRV-1222, PRV -1223, PR-1250, PRV-1558, PRV-2024, PRV-2025, PRV-2059, PRV-4470, PR-1571), the two (2) 2500 ton Reinforced Plastic Molding Presses, constructed in 2000 (PR-2566 and PR-2567), **and the injection molding presses PR-1572, PR-1573 and PR-1574,** shall be limited such that the total VOC emissions are no more than 246.1 tons per twelve (12) consecutive month period.

The SMC closed molding operations performed by ~~all the eighteen (18) Reinforced Plastic~~ molding presses shall use the standard US EPA AP-42 three percent (3.0%) VOC emission factor to determine compliance with the VOC emission limit.

- (b) This VOC emission limit combined with the full potential to emit VOC from the two (2) boilers and 3.23 tons per year from insignificant activities shall limit the total source-wide VOC emissions to less than two hundred and fifty (250) tons per twelve (12) consecutive month period. Compliance with this limit makes the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 40 CFR 52.21 not applicable.

#### D.2.3 Volatile Organic Compounds [326 IAC 8-1-6]

Any change or modification which would increase the potential to emit VOC to twenty-five (25) tons per year or more from any of the reinforced plastic molding presses (PR-0206, PR-0213, PR-0419, PR-0420, PR-0617, PR-0618, PRV-1222, PRV-1223, PRV-1250, PRV-1558, PRV-2024, PRV-2025,

PRV-2059, PR-2566, PR-2567, PRV-4470, PRV-0648, PR-0849, PRV-1026, PR-1571, PR-1572, **PR-1573 or PR-1574**) shall obtain prior approval from IDEM, OAQ.

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

**Part 70 Quarterly Report**

Source Name: Meridian Automotive Systems  
Source Address: 14123 Roth Road, Grabill, Indiana 46741  
Mailing Address: 14123 Roth Road, Grabill, Indiana 46741  
Part 70 Permit No.: T 003-5942-00059  
Facilities: Four (4) spray booths (SB-A, SB-B, SB-C24 and SB-C32), the four (4) touch-up booths (TU-A, TU-B, TU-FNSH and TU-SPLASH), ~~the two (2) polyester products raw materials compounding lines (SMC-MFG1 and SMC-MFG3),~~ **the three (3) SMC manufacturing lines, known as Machine 1, Machine 2 and Machine 3,** the eighteen (18) Reinforced Plastic Molding Presses, installed between 1968 and 1998 (PR-0206, PR-0213, PR-0419, PR-0420, PR-0617, PR-0618, PRV-0648, PRV-0849, PRV-1026, PRV-1222, PRV -1223, PR-1250, PRV-1558, PRV-2024, PRV-2025, PRV-2059, PRV-4470, PR-1571), the two (2) 2500 ton Reinforced Plastic Molding Presses, constructed in 2000 (PR-2566 and PR-2567), **and the injection molding presses PR-1572, PR-1573 and PR-1574**  
Parameter: VOC emissions  
Limit: Less than 246.1 tons per twelve (12) consecutive month period, total.

**Conclusion**

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. **003-20376-00059** and Part 70 Minor Permit Modification No. **003-19915-00059**.

**Appendix A: Emissions Calculations  
VOC and HAP Emissions  
From Closed Molding Operations  
PR-1573 and PR-1574**

**Company Name: Meridian Automotive Systems, Inc.  
Address City IN Zip: 14123 Roth Road, Grabill, Indiana 46741  
MSM: 003-20376  
Plt ID: 003-00059  
Reviewer: Edward A. Longenberger  
Application Date: November 16, 2004**

Material	Weight % VOC	Weight % Styrene Monomer	SMC Usage (lbs/hour)	Flash Off (%)	Potential VOC (pounds/hour)	Potential VOC (pounds/day)	Potential VOC (tons/year)	Potential Styrene (tons/year)
<b>Injection Molding Presses (SMC)</b>								
PR-1573	13.00%	13.00%	200	3.0%	0.78	18.72	3.42	3.42
PR-1574	13.00%	13.00%	200	3.0%	0.78	18.72	3.42	3.42
<b>State Potential Emissions</b>					<b>1.56</b>	<b>37.44</b>	<b>6.83</b>	<b>6.83</b>

**METHODOLOGY**

Potential VOC Pounds per Hour = Pounds of material used per hour \* VOC content \* flash off factor

Potential VOC Tons per Year = Potential VOC Pounds per Hour \* 8760 hrs/yr / 2000 lbs/ton

Potential Styrene Tons per Year = Pounds of material used per hour \* Styrene monomer content \* flash off factor \* (8,760 hrs/yr / 2,000 lbs/ton)

Flash off factors are based on AP-42 Table 4.4-2 for closed molding operations