



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: June 29, 2009

RE: Shelby Coatings / 097 - 28106 - 00662

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

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot12/03/07



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SOURCE SPECIFIC OPERATING AGREEMENT OFFICE OF AIR QUALITY

Shelby Coatings, Inc.
8299 Arthington Boulevard
Indianapolis, Indiana 46218

(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 SSOA.

This SSOA is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-9 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this SSOA, are those applicable at the time the SSOA was issued. The issuance or possession of this SSOA shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Source Specific Operating Agreement (SSOA) under 326 IAC 2-9.

Source Specific Operating Agreement No. 097-28106-00662	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: June 29, 2009

SECTION A

SOURCE SUMMARY

This SSOA is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits pursuant to 326 IAC 2.

A.1 General Information

The Permittee owns and operates a stationary abrasive blasting and structural steel surface coating facility.

Source Address:	8299 Arthington Boulevard, Indianapolis, Indiana 46218
Mailing Address:	4575 West Range Road, Shelbyville, Indiana 46176
General Source Phone Number:	317-850-0155
SIC Code:	3449
County Location:	Marion County
Source Location Status:	Nonattainment for PM _{2.5} standard Attainment for all other criteria pollutants
Source Status:	Source Specific Operating Agreement (SSOA) Not 1 of 28 Source Categories

A.2 Source Summary

This stationary abrasive blasting and structural steel surface coating source consists of the following:

- 1 Abrasive Cleaning Operation [326 IAC 2-9-5]
 - (a) One (1) stationary dry abrasive blasting operation, identified as SB1, approved for constructed in 2009, blasting miscellaneous structural steel parts at a rate of 1.25 tons/hour, equipped with a 0.375 inch nozzle operated at a maximum of 100 psi, using coal slag abrasive, with a media density of 100 lbs/ft², with a maximum capacity of 720 lb/hr of abrasive, and venting indoors. Blasting is performed inside an enclosed building, which consists of a 70' x 210' x 22' structure with two stationary walls and 2 sides covered by containment screens, for particulate control.
- 2 Surface Coating or Graphic Arts Operation [326 IAC 2-9-2.5]
 - (b) One (1) stationary surface coating operation, identified as SC1, approved for constructed in 2009, consisting of one (1) airless spray gun, with a maximum usage rate of 2.5 gallons of primer or finish per hour, and a maximum capacity to coat 1.25 tons of structural steel per hour. Surface coating is performed inside an enclosed building for particulate control.

A.3 SSOA Applicability [326 IAC 2-9-1]

- (a) This source, otherwise required to have a permit under 326 IAC 2-5.1, 326 IAC 2-5.5, 326 IAC 2-6.1, 326 IAC 2-7, or 326 IAC 2-8, has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Source Specific Operating Agreement (SSOA) under 326 IAC 2-9.
- (b) Pursuant to 326 IAC 2-9-1(g), the source may apply for up to four (4) different SSOAs contained in 326 IAC 2-9.

SECTION B GENERAL CONDITIONS

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

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

B.2 Enforceability

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

B.3 Severability

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

B.4 Property Rights or Exclusive Privilege

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

B.5 Duty to Provide Information

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

B.6 Prior Permits Superseded [326 IAC 2-1.1-9.5]

-
- (a) All terms and conditions of permits established prior to SSOA No. 097-28106-00662 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.7 Annual Notification [326 IAC 2-9-1(d)]

Pursuant to 326 IAC 2-9-1(d):

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this SSOA.

- (b) The annual notice shall be submitted in the format attached no later than January 30 of each year to:

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

- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

B.8 Source Modification Requirement [326 IAC 2-9-1(e)]

Pursuant to 326 IAC 2-9-1(e), any change or modification which will alter operations in such a way that it will no longer comply with the applicable restrictions and conditions of this operating agreement, must obtain the appropriate approval from the Office of Air Quality (OAQ) under 326 IAC 2-5.1, 326 IAC 2-5.5, 326 IAC 2-6.1, 326 IAC 2-2, 326 IAC 2-3, 326 IAC 2-7, and 326 IAC 2-8, before such change may occur.

B.9 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [IC 13-14-2-2] [IC 13-17-3-2] [IC 13-30-3-1]

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

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

B.10 Permit Revocation [326 IAC 2-1.1-9] [326 IAC 2-9-1(j)]

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

- (2) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
 - (3) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
 - (4) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
 - (5) For any cause which establishes in the judgment of IDEM the fact that continuance of this permit is not consistent with purposes of this article.
- (b) Pursuant to 326 IAC 2-9-1(j), noncompliance with any applicable provision 326 IAC 2-9 or any requirement contained in this SSOA may result in the revocation of this SSOA and make this source subject to the applicable requirements of a major source.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-9]

C.1 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of forty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.2 Fugitive Dust Emissions [326 IAC 6-4]

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

Compliance Requirements [326 IAC 2-1.1-11] [326 IAC 2-9]

C.3 Compliance with Applicable Requirements [326 IAC 2-9-1(i)]

Pursuant to 326 IAC 2-9-1(i), the owner or operator is hereby notified that this operating agreement does not relieve the Permittee of the responsibility to comply with the provisions of any applicable federal, state, or local rules, or any New Source Performance Standards (NSPS), 40 CFR Part 60, or National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 61 or 40 CFR Part 63.

Record Keeping and Reporting Requirements [326 IAC 2-9]

C.4 General Record Keeping Requirements [326 IAC 2-9-1(f)]

Pursuant to 326 IAC 2-9-1(f), records of all required monitoring data, reports and support information required by this SSOA shall be physically present or electronically accessible at the source location for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

C.5 Reporting Requirements [326 IAC 2-9-1(h)]

Pursuant to 326 IAC 2-9-1(h), any exceedance of any requirement contained in this operating agreement shall be reported, in writing, within one (1) week of its occurrence. Said report shall include information on the actions taken to correct the exceedance, including measures to reduce emissions, in order to comply with the established limits. If an exceedance is the result of a malfunction, then the provisions of 326 IAC 1-6 apply.

SECTION D.1

OPERATION CONDITIONS

Operation Description: Abrasive Cleaning Operation [326 IAC 2-9-5]

- (a) One (1) stationary dry abrasive operation, identified as SB1, approved for constructed in 2009, blasting miscellaneous structural steel parts at a rate of 1.25 tons/hour, equipped with a 0.375 inch nozzle operated at a maximum of 100 psi, using coal slag abrasive, with a media density of 100 lbs/ft², with a maximum capacity of 720 lb/hr of abrasive, and venting indoors. Blasting is performed inside an enclosed building, which consists of a 70' x 210' x 22' structure with two stationary walls and 2 sides covered by containment screens, for particulate control.

(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 2-9]

D.1 Abrasive Cleaning Limitations [326 IAC 2-9-5(1)]

Pursuant to 326 IAC 2-9-5(1):

- (a) The units of the abrasive cleaning operation shall be totally enclosed.
- (b) The particulate matter (PM) emissions from the abrasive cleaning operation shall not exceed one-hundredth (0.01) grain per actual cubic foot of outlet air.
- (c) The exhaust air flow rate of the abrasive cleaning operation shall not exceed forty thousand (40,000) actual cubic feet of outlet air per minute.

Record Keeping and Reporting Requirements [326 IAC 2-9]

D.2 Record Keeping Requirements [326 IAC 2-9-5(5)]

Pursuant to 326 IAC 2-9-5(5), the source shall maintain records of the types of air pollution control devices utilized at the source and the abrasive cleaning operation, and the operation and maintenance manuals for those devices. All records shall be maintained in accordance with Section C - General Record Keeping Requirements.

SECTION D.2

OPERATION CONDITIONS

Operation Description: Surface Coating Operation [326 IAC 2-9-2.5]

- (b) One (1) stationary surface coating operation, identified as SC1, approved for constructed in 2009, consisting of one (1) airless spray gun, with a maximum usage rate of 2.5 gallons of primer or finish per hour, and a maximum capacity to coat 1.25 tons of structural steel per hour. Surface coating is performed inside an enclosed building for particulate control.

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

D.1 Volatile Organic Compounds and Hazardous Air Pollutants Limit [326 IAC 2-9-3(2)(A)]

Pursuant to 326 IAC 2-9-3(2)(A), the combined total amount of volatile organic compounds (VOC) and hazardous air pollutants (HAP) delivered to the surface coating operation at the source shall not exceed fifteen (15) pounds per day.

D.2 Particulate [326 IAC 2-9-3(4)]

Pursuant to 326 IAC 2-9-3(4), particulate matter emissions shall be controlled by a dry filter system or an equivalent control device. The source shall operate the particulate control device at all times the surface coating operation is in operation in accordance with the manufacturer's specifications. A source shall be considered in compliance with this requirement provided the overspray is not visibly detectable at the exhaust or accumulated on the rooftops or on the ground.

Record Keeping and Reporting Requirements [326 IAC 2-9]

D.3 Record Keeping Requirements [326 IAC 2-9-3(3)]

Pursuant to 326 IAC 2-9-3(3), the source shall keep the following records of the surface coating operation:

- (a) the number of gallons of each solvent containing material used,
- (b) the VOC and HAP content (pounds per gallon as supplied) of each solvent containing material used,
- (c) material safety data sheets (MSDS) for all VOC and HAP containing material used,
- (d) a monthly summation of VOC and HAP usage, and
- (e) purchase orders and invoices for each solvent containing material used.

All records shall be maintained in accordance with Section C - General Record Keeping Requirements.

D.4 Reporting Requirements [326 IAC 2-9-3(5)]

Pursuant to 326 IAC 2-9-3(5), the Permittee shall include with the annual notice required in Section B - Annual Notification, an inventory listing of the monthly volatile organic compound (VOC) totals, and the total VOC emissions for the previous twelve (12) months.

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

**SOURCE SPECIFIC OPERATING AGREEMENT (SSOA)
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-9.

Company Name:	Shelby Coatings, Inc.
Address:	8299 Arthington Boulevard
City:	Indianapolis, Indiana 46218
Phone #:	317-850-0155
SSOA #:	097-28106-00662

I hereby certify that Shelby Coatings, Inc. is:

still in operation.

I hereby certify that Shelby Coatings, Inc. is:

no longer in operation.

in compliance with the requirements
of SSOA 097-28106-00662.

not in compliance with the requirements
of SSOA 097-28106-00662.

Authorized Individual (typed):
Title:
Signature:
Date:

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

Noncompliance:

**Appendix A: Emission Calculations
Summary**

Company Name: Shelby Coatings, Inc.
Address City IN Zip: 2899 Arthington Boulevard, indianapolis, IN 46218
Permit Number: 097-28106-00662
Application Date: June 12, 2009
Reviewer: Sandra Carr

Controlled

Process	PM ⁽¹⁾	PM₁₀ ⁽¹⁾	PM_{2.5} ⁽¹⁾	SO₂	VOC ⁽¹⁾	NO_x	CO	Total HAP ⁽¹⁾	Single HAP
Blasting	2.91	2.50	2.50	negli.	negli.	negli.	negli.	negli.	negli.
Surface Coating	19.39	19.39	19.39	negli.	18.53	negli.	negli.	negli.	negli.
HAP	negli.	negli.	negli.	negli.	negli.	negli.	negli.	5.09	4.16 (Xylenes)
Totals	22.30	21.89	21.89	negli.	18.53	negli.	negli.	5.09	4.16 (Xylenes)

⁽¹⁾ Hours of operation are limited to 2,000 per year.

Appendix A: Emission Calculations
Abrasive Blasting - Confined

Company Name: Shelby Coatings, Inc.
Address City IN Zip: 2899 Arthington Boulevard, indianapolis, IN 46218
Permit Number: 097-28106-00662
Application Date: June 12, 2009
Reviewer: Sandra Carr

Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor (EF)	
	lb PM / lb abrasive	lb PM ₁₀ / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Table 2 - Density of Abrasives (lb/ft³)

Abrasive	Density (lb/ft ³)
Al oxides	160
Sand	99
Steel	487
Coal Slag	100

Table 3 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)

Flow rate (FR1) of sand through a blasting nozzle as a function of nozzle pressure and internal diameter (ID1)

Nozzle Type (diameter)	Internal diameter, in	Nozzle Pressure (psig)							
		30	40	50	60	70	80	90	100
No. 2 (1/8 inch)	0.125	28	35	42	49	55	63	70	77
No. 3 (3/16 inch)	0.1875	65	80	94	107	122	135	149	165
No. 4 (1/4 inch)	0.25	109	138	168	195	221	255	280	309
No. 5 (5/16 inch)	0.3125	205	247	292	354	377	420	462	507
No. 6 (3/8 inch)	0.375	285	355	417	477	540	600	657	720
No. 7 (7/16 inch)	0.4375	385	472	560	645	755	820	905	940
No. 8 (1/2 inch)	0.5	503	615	725	835	945	1050	1160	1265
No. 10 (5/8 inch)	0.625	820	990	1170	1336	1510	1680	1850	2030
No. 12 (3/4 inch)	0.75	1140	1420	1670	1915	2160	2400	2630	2880
No. 16 (1 inch)	1	2030	2460	2900	3340	3780	4200	4640	5060

CALCULATIONS

Adjusting Flow Rates for Different Abrasives and Nozzle Diameters	
Flow Rate (FR) = Abrasive flow rate (lb/hr) of abrasive at nozzle pressure and internal nozzle diameter (ID)	
D1 = Density of sand from Table 2 =	99 lb/ft ³
ID1 = Internal diameter of nozzle for sand blasting from Table 3 =	0.375 inch
FR1 = Sand flow rate at nozzle pressure and internal diameter (ID1) from Table 3 =	720.0 lb/hr
D = Density of actual abrasive =	100 lb/ft ³
ID = internal diameter of actual nozzle =	0.375 inch
FR = Flow rate of actual abrasive (lb/hr) =	727.3 lb/hr (per nozzle)

Uncontrolled Potential to Emit													
FR = Flow rate of actual abrasive (lb/hr) =	727.3 lb/hr (per nozzle)												
w = fraction of time of wet blasting =	0 %												
N = number of nozzles =	1												
EF = PM emission factor for actual abrasive from Table 1 =	0.004 lb PM / lb abrasive												
PM ₁₀ emission factor ratio for actual abrasive from Table 1 =	0.86 lb PM ₁₀ / lb PM												
Potential to Emit (before control) =	2.909 lb/hr												
=	69.82 lb/day												
=	2.91 ton/yr												
	<table border="1"> <thead> <tr> <th>PM</th> <th>PM₁₀</th> <th>PM_{2.5}</th> </tr> </thead> <tbody> <tr> <td>2.909</td> <td>2.502</td> <td>2.502</td> </tr> <tr> <td>69.82</td> <td>60.04</td> <td>60.04</td> </tr> <tr> <td>2.91</td> <td>2.50</td> <td>2.50</td> </tr> </tbody> </table>	PM	PM ₁₀	PM _{2.5}	2.909	2.502	2.502	69.82	60.04	60.04	2.91	2.50	2.50
PM	PM ₁₀	PM _{2.5}											
2.909	2.502	2.502											
69.82	60.04	60.04											
2.91	2.50	2.50											

Potential to Emit After Control													
Emission Control Device Efficiency =	50.0%												
Potential to Emit (after control) =	1.45 lb/hr												
=	34.91 lb/day												
=	1.45 ton/yr												
	<table border="1"> <thead> <tr> <th>PM</th> <th>PM₁₀</th> <th>PM_{2.5}</th> </tr> </thead> <tbody> <tr> <td>1.45</td> <td>1.25</td> <td>1.25</td> </tr> <tr> <td>34.91</td> <td>30.02</td> <td>30.02</td> </tr> <tr> <td>1.45</td> <td>1.25</td> <td>1.25</td> </tr> </tbody> </table>	PM	PM ₁₀	PM _{2.5}	1.45	1.25	1.25	34.91	30.02	30.02	1.45	1.25	1.25
PM	PM ₁₀	PM _{2.5}											
1.45	1.25	1.25											
34.91	30.02	30.02											
1.45	1.25	1.25											

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)

Flow rate of actual abrasive (FR) (lb/hr) = FR1 x (ID/ID1)² x (D/D1)

Potential to Emit (before control) = EF x FR x (1 - w/200) x N (where w should be entered in as a whole number (if w is 50%, enter 50))

Potential to Emit (after control) = [Potential to Emit (before control)] * [1 - control efficiency]

Potential to Emit (tons/year) = [Potential to Emit (lbs/hour)] x [8760 hours/year] x [ton/2000 lbs]

Process	PWR (ton/hr)	6-3-2 Limit (lb/hr)	6-3-2 Limit (ton/yr)
abrasive blasting	1.25	4.76	20.85

NOTES:

Blasting is done in an enclosed building so 50% control assumed.

Due to equipment & space limitations, this source can either sand blast or paint but cannot do both simultaneously.

Hours of operation are limited to 2,000 per year.

**Appendix A: Emissions Calculations
Hazardous Air Pollutants
From Surface Coating Operations**

**Company Name: Shelby Coatings, Inc.
Address City IN Zip: 2899 Arthington Boulevard, Indianapolis, IN 46218
Permit Number: 097-28106-00662
Application Date: June 12, 2009
Reviewer: Sandra Carr**

Controlled Potential Emissions**HAZARDOUS AIR POLLUTANTS**

Coating	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Ethyl Benzene	Weight % MIK	Weight % HDI Isocyanate	Weight % Pb	Weight % Toluene	Weight % Xylene	Ethyl Benzene Emissions (ton/yr)	MIK Emissions (ton/yr)	HDI Isocyanate Emissions (ton/yr)	Pb Emissions (ton/yr)	Toluene Emissions (ton/yr)	Xylene Emissions (ton/yr)	Total HAP Emissions (ton/yr)
Carbothane	11.19	5.0000	0.500	0.35%	0.00%	0.01%	0.00%	0.32%	1.46%	0.10	0.00	0.003	0.00	0.09	0.41	0.60
Carbozinc	21.32	5.0000	0.500	0.02%	0.00%	0.00%	0.03%	0.00%	0.07%	0.01	0.00	0.00	0.02	0.00	0.04	0.00
PittGuard	12.15	5.0000	0.500	1.15%	0.00%	0.00%	0.00%	6.45%	6.97%	0.35	0.00	0.00	0.00	1.96	2.12	0.00
Endura-Shield II	11.04	5.0000	0.500	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	4.43
Tneme-Zinc	23.93	5.0000	0.500	0.48%	0.00%	0.00%	0.00%	0.00%	1.93%	0.29	0.00	0.00	0.00	0.00	1.15	0.00
Endura-Shield	12.22	5.0000	0.500	0.04%	0.00%	0.00%	0.00%	0.00%	0.16%	0.01	0.00	0.00	0.00	0.00	0.05	0.00
Tneme-Fascure	12.30	5.0000	0.500	0.18%	0.82%	0.00%	0.00%	0.00%	1.27%	0.06	0.25	0.00	0.00	0.00	0.39	0.06
										0.81	0.25	0.003	0.02	2.05	4.16	5.09

METHODOLOGY

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

NOTES:

Hours of operation are limited to 2,000 per year.
Endura-Sheild II contains 0% HAP.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

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

TO: Garrick Ballard
Shelby Coatings
4575 W Range Rd
Shelbyville, IN 46176

DATE: June 29, 2009

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

SUBJECT: Final Decision
SSOA
097 - 28106 - 00662

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

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

A copy of the final decision and supporting materials has also been sent via standard mail to:
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	LPOGOST 6/29/2009 Shelby Coatings, Inc. 097 - 28106 - 00662 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee
											Remarks
1		Garrick Ballard Shelby Coatings, Inc. 4575 W Range Rd Shelbyville IN 46176 (Source CAATS) Via confirmed delivery									
2		Marion County Health Department 3838 N, Rural St Indianapolis IN 46205-2930 (Health Department)									
3		Mrs. Sandra Lee Watson 7834 E 100 S Marion IN 46953 (Affected Party)									
4		Larry and Becky Bischoff 10979 North Smokey Row Road Mooresville IN 46158 (Affected Party)									
5		Indianapolis City Council and Mayors Office 200 East Washington Street, Room E Indianapolis IN 46204 (Local Official)									
6		Marion County Commissioners 200 E. Washington St. City County Bldg., Suite 801 Indianapolis IN 46204 (Local Official)									
7		Ms. Janet McCabe Improving Kids Environment 3951 N Meridian Street Suite 160 Indianapolis IN 46208-4062 (Affected Party)									
8		Matt Mosier Office of Sustainability 2700 South Belmont Ave. Administration Bldg. Indianapolis IN 46221 (Local Official)									
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Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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