



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: August 13, 2009

RE: Prism Painting Company, Inc. / 089-28162-00544

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

Notice of Decision: Approval - Registration

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 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

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, 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
FN-REGIS.dot 1/2/08



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REGISTRATION OFFICE OF AIR QUALITY

Prism Painting Company, Inc.
368 Kennedy Avenue
Schererville, Indiana 46375

Pursuant to 326 IAC 2-5.1 (Construction of New Sources: Registrations) and 326 IAC 2-5.5 (Registrations), (herein known as the Registrant) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this registration.

Registration No. 089-28162-00544	
Issued by:  Alfred C. Dumauval, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: August 13, 2009

SECTION A

SOURCE SUMMARY

This registration 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 Registrant 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 Registrant to obtain additional permits pursuant to 326 IAC 2.

A.1 General Information

The Registrant owns and operates a stationary industrial steel surface coating and abrasive blasting facility.

Source Address:	368 Kennedy Ave., Scherville, Indiana 46375
Mailing Address:	P.O. Box 1944 Highland, Indiana 46322
General Source Phone Number:	(219) 322-4800
SIC Code:	1721
County Location:	Lake County
Source Location Status:	Nonattainment for 8-hour ozone standard Nonattainment for PM 2.5 standard Attainment for all other criteria pollutants
Source Status:	Registration

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) abrasive blast building, identified as B3, constructed in 1985, with a maximum capacity of 275 pounds per hour, using a cyclone for particulate control.
- (b) One (1) steel surface coating operation, identified as B4, constructed in 2006, with a maximum capacity of 0.35 gallons per hour.
- (c) Two (2) natural gas-fired process heaters, identified collectively as HT1, constructed in 2009, with a heat input rate of 0.12 MMBtu per hour, each, uncontrolled, and exhausting to a stack.
- (d) Four (4) natural gas-fired process heaters, identified collectively as HT2, constructed in 2006, with a heat input rate of 0.15 MMBtu per hour, each, uncontrolled, and exhausting to a stack.
- (e) Two (2) coal slag storage hoppers, identified as S1 and S2, with maximum materials throughput rate of 600 and 400 tons per year, respectively.

SECTION B

GENERAL CONDITIONS

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

Terms in this registration 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 Effective Date of Registration [IC 13-15-5-3]

Pursuant to IC 13-15-5-3, this registration 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.

B.3 Registration Revocation [326 IAC 2-1.1-9]

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

- (a) Violation of any conditions of this registration.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this registration shall not require revocation of this registration.
- (d) For any cause which establishes in the judgment of IDEM the fact that continuance of this registration is not consistent with purposes of this article.

B.4 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to Registration No. 089-28162-00544 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 registration.

B.5 Annual Notification [326 IAC 2-5.1-2(f)(3)] [326 IAC 2-5.5-4(a)(3)]

Pursuant to 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3):

- (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 registration.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

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

B.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]

Pursuant to 326 IAC 2-5.5-6(a), an application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

B.7 Registrations [326 IAC 2-5.1-2(i)]

Pursuant to 326 IAC 2-5.1-2(i), this registration does not limit the source's potential to emit.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

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 registration:

- (a) Opacity shall not exceed an average of twenty percent (20%) 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 Registrant 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).

SECTION D.1

OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) One (1) abrasive blast building, identified as B3, constructed in 1985, with a maximum capacity of 275 pounds of blasting media per hour and 15 tons of steel, using a cyclone for particulate control.
- (b) One (1) steel surface coating operation, identified as B4, constructed in 2006, with a maximum capacity of 0.35 gallons per hour.

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

Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.1.1 Particulate [326 IAC 6-3]

- (a) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the abrasives blasting operation shall not exceed 25.32 pounds per hour when operating at a process weight rate of 0.1375 tons per hour. The pound per hour limitation was calculated with the following equation:

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

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

- (b) Pursuant to 326 IAC 6-3-2(d), the surface coating process shall be controlled by a dry filter, waterwash, or an equivalent control device, subject to the following:
 - (1) The source shall operate the control device in accordance with manufacturer's specification.
 - (2) If overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - (A) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (B) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (3) If overspray is visibly detected, the source shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

D.1.2 Preventive Maintenance Plan

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

Record Keeping and Reporting Requirements [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

D.1.3 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1(b), the Permittee shall maintain a record of any actions taken if overspray is visibly detected.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

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

**REGISTRATION
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3).

Company Name:	Prism Painting Company, Inc.
Address:	368 Kennedy Avenue
City:	Schererville, Indiana 46375
Phone Number:	(219) 322-4800
Registration No.:	089-28162-00544

I hereby certify that Prism Painting Company, Inc. is :

- still in operation.
- no longer in operation.

I hereby certify that Prism Painting Company, Inc. is :

- in compliance with the requirements of Registration No. 089-28162-00544.
- not in compliance with the requirements of Registration No. 089-28162-00544.

Authorized Individual (typed):
Title:
Signature:
Phone Number:
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:

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration

Source Description and Location

Source Name:	Prism Painting Company, Inc.
Source Location:	368 Kennedy Ave., Schererville, Indiana 46375
County:	Lake
SIC Code:	3479
Registration No.:	089-28162-00544
Permit Reviewer:	Anne-Marie C. Hart

On June 29, 2009, the Office of Air Quality (OAQ) received an application from Prism Painting Company, Inc. related to the construction and operation of an existing industrial steel surface coating and abrasive blasting facility.

Existing Approvals

There have been no previous approvals issued to this source.

County Attainment Status

The source is located in Lake County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148 th Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O ₃	Nonattainment Subpart 2 Moderate effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.

¹Nonattainment Severe 17 effective November 15, 1990, for the Chicago-Gary-Lake County area for the 1-hour ozone standard which was revoked effective June 15, 2005.
Basic nonattainment designation effective federally April 5, 2005, for PM_{2.5}.

- (a) Ozone Standards
Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.
- (i) 1-hour ozone standard
On December 22, 2006 the United States Court of Appeals, District of Columbia issued a decision which served to partially vacate and remand the U.S. EPA's final rule for implementation of the eight-hour National Ambient Air quality Standard for ozone. *South Coast Air Quality Mgmt. Dist. v. EPA*, 472 F.3d 882 (D.C. Cir., December 22, 2006), *rehearing denied* 2007 U.S. App. LEXIS 13748 (D.C. Cir., June 8, 2007). The U.S. EPA

has instructed IDEM to issue permits in accordance with its interpretation of the *South Coast* decision as follows: Gary-Lake-Porter County was previously designated as a severe non-attainment area prior to revocation of the one-hour ozone standard, therefore, pursuant to the anti-backsliding provisions of the Clean Air Act, any new or existing source must be subject to the major source applicability cut-offs and offset ratios under the area's previous one-hour standard designation. This means that a source must achieve the Lowest Achievable Emission Rate (LAER) if it exceeds 25 tons per year of VOC emissions and must offset any increase in VOC emissions by a decrease of 1.3 times that amount.

On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NOx threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability for the source section.

- (ii) 8-hour ozone standard
VOC and NOx emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability – Entire Source section.
- (b) PM2.5
U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Lake County as nonattainment for PM2.5. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM2.5 promulgated on May 8, 2008, and effective on July 15 2008. Therefore, direct PM2.5 and SO2 emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.
- (c) Other Criteria Pollutants
Lake County has been classified as attainment or unclassifiable in Indiana for all other regulated criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-5.1-2 (Registrations) applicability.

Unpermitted Emission Units and Pollution Control Equipment

The Office of Air Quality (OAQ) has reviewed an application, submitted by Prism Painting Company Inc. on June 29, 2009 relating to the construction and operation of an existing steel surface coating and abrasive blasting facility.

The source consists of the following unpermitted emission units:

- (a) One (1) abrasive blast building, identified as B3, constructed in 1985, with a maximum capacity of 275 pounds of blasting media per hour and 15 tons of steel, using a cyclone for particulate control.

- (b) One (1) steel surface coating operation, identified as B4, constructed in 2006, with a maximum capacity of 0.35 gallons per hour.
- (c) Two (2) natural gas-fired process heaters, identified collectively as HT1, constructed in 2009, with a heat input rate of 0.12 MMBtu per hour, each, uncontrolled, and exhausting to a stack.
- (d) Four (4) natural gas-fired process heaters, identified collectively as HT2, constructed in 2006, with a heat input rate of 0.15 MMBtu per hour, each, uncontrolled, and exhausting to a stack.
- (e) Two (2) coal slag storage hoppers, identified as S1 and S2, with maximum materials throughput rate of 600 and 400 tons per year, respectively.

Enforcement Issues

IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. IDEM is reviewing this matter and will take the appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit rules.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination –Registration

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	Potential To Emit of the Entire Source (tons/year)								
	PM	PM10 *	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Surface Coating Operation	9.88	9.88	9.88	0.00	0.00	16.00	0.00	20.72	7.36 Xylene
Abrasive Blasting	12.05	12.05	12.05	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Combustion	Negl.	Negl.	Negl.	Negl.	0.37	0.02	0.31	0.01	Negl. Hexane
Fugitive Emissions - Material Storage	Negl.	Negl.	Negl.	0.00	0.00	0.00	0.00	0.00	0.00
Total PTE of Entire Source	21.94	21.96	21.95	Negl.	0.37	16.03	0.31	20.73	7.36 Xylene
Exemptions Levels	5	5	5	10	10	5 or 10	25	25	10
Registration Levels	25	25	25	25	25	25	100	25	10

negl. = negligible (less than 0.01 tons per year)

* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of PM, PM10 and VOC are within

the ranges listed in 326 IAC 2-5.1-2(a)(1). The PTE of all other regulated criteria pollutants are less than the ranges listed in 326 IAC 2-5.1-2(a)(1). Therefore, the source is subject to the provisions of 326 IAC 2-5.1-2 (Registrations). A Registration will be issued.

- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard for Surface Coating of Metal Furniture, 40 CFR 60, Subpart EE (326 IAC 12), are not included in the permit, since the source does not perform surface coating of metal furniture.
- (b) The requirements of the New Source Performance Standard for Automobile and Light Duty Truck Surface Coating Operations, 40 CFR 60, Subpart MM (326 IAC 12) are not included in the permit, since the source does not perform surface coating of automobiles and light duty trucks.
- (c) The requirements of the New Source Performance Standard for Industrial Surface Coating: Large Appliances, 40 CFR 60, Subpart SS (326 IAC 12) are not included in the permit, since the source does not perform surface coating of large appliances.
- (d) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH, are not included in the permit, since the source does not perform paint stripping or autobody refinishing, and does not use coatings containing the target HAPs as defined in the rule.
- (f) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

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

State Rule Applicability Determination

The following state rules are applicable to the source:

- (a) 326 IAC 2-5.1-2 (Registrations)
Registration applicability is discussed under the Permit Level Determination – Registration section above.

- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (c) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is located in Lake County, it has actual emissions of NO_x and VOC of less than twenty-five (25) tons per year, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (d) 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
- (1) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) 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.
- (e) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.
- (f) 326 IAC 6.8-10 (Lake County: Fugitive Particulate Matter)
The source is not subject to the requirements of 326 IAC 6.8-10, because the material storage hoppers do not have potential fugitive particulate emissions greater than 5 tons per year.
- (g) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Each of the emission units at this source is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each emission unit is less than twenty-five (25) tons per year.

Abrasives Blasting

- (h) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the abrasives blasting operation shall not exceed 25.32 pounds per hour when operating at a process weight rate of 15.1375 tons per hour. The pound per hour limitation was calculated with the following equation:

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

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

The potential particulate emissions from the abrasive blasting operation are 2.74 pounds per hour. The abrasive blasting operation is able to comply with this limit.

- (i) 326 IAC 6.8 (Particulate Matter Limitations for Lake County)
Pursuant to 326 IAC 6.8-1-1(a)(2)(B), the abrasives blasting operation is not subject to 326 IAC 6.8 because the potential to emit particulate matter from the source is less than 100 tons per year and actual particulate matter emissions are less than 10 tons per year.

Surface Coating Operation

- (j) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2(d), the surface coating process shall be controlled by a dry filter, waterwash, or an equivalent control device, subject to the following:
 - (1) The source shall operate the control device in accordance with manufacturer's specification.
 - (2) If overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - (A) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (B) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (3) If overspray is visibly detected, the source shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.
- (k) 326 IAC 6.8 (Particulate Matter Limitations for Lake County)
Pursuant to 326 IAC 6.8-1-1(a)(2)(B), the surface coating operation is not subject to 326 IAC 6.8 because the potential to emit particulate matter from the source is less than 100 tons per year and actual particulate matter emissions are less than 10 tons per year.
- (l) 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations)
The surface coating operation, constructed in 2006 and located in Lake County, does not engage in the surface coating of the miscellaneous metal described in 326 IAC 8-2-9(a). Further, the source does not operate under any of the Standard Industrial Classification (SIC) codes listed in 326 IAC 8-2-9(a)(5). Therefore, the surface coating operation is not subject to 326 IAC 8-2-9.
- (m) 326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties)
The surface coating operation, constructed in 2006 and located in Lake County, has the potential to emit less than 25 tons of VOC per year. Therefore, the surface coating operation is not subject to 326 IAC 8-7.

Natural Gas-Fired Combustion Units

- (n) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)
The natural gas-fired process heaters, located in Lake County, are not sources of indirect heating. Therefore, the natural gas-fired process heaters, identified as HT1 and HT2 are not subject to 326 IAC 6-2-2.
- (o) 326 IAC 6.8 (Particulate Matter Limitations for Lake County)
The natural gas-process heaters, located in Lake County, are not fuel combustion steam generators. Therefore, the natural gas-fired process heaters, identified as HT1 and HT2 are not subject to 326 IAC 6.8-1-2.
- (p) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.
- (q) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on June 29, 2009.

The construction and operation of this source shall be subject to the conditions of the attached proposed Registration No. 089-28162-00544. The staff recommends to the Commissioner that this Registration be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Anne-Marie C. Hart at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5174 or toll free at 1-800-451-6027 extension 4-5174.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

**Appendix A: Emissions Calculations
Emission Summary**

Company Name: Prism Painting Company, Inc.
Address City IN Zip: 368 Kennedy Ave., Schererville, Indiana 46375
Permit Number: 089-28162-00544
Plt ID: 089-00544
Reviewer: Anne-Marie C. Hart
Date: July 22, 2009

Emission Unit/Process	Tons/Year									
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Total HAPs	Worst-Case HAP	
Surface Coating Operation	9.88	9.88	9.88	0.00	0.00	16.00	0.00	20.72	7.36	Xylene
Abrasive Blasting	12.05	12.05	12.05	0.00	0.00	0.00	0.00	0.00	0.00	
Natural Gas Combustion	0.01	0.03	0.03	2.23E-03	0.37	0.02	0.31	0.01	6.70E-03	Hexane
Material Storage	9.58E-03	4.53E-03	6.86E-04	0.00	0.00	0.00	0.00	0.00	0.00E+00	
Total	21.94	21.96	21.95	2.23E-03	0.37	16.03	0.31	20.73	7.36	Xylene

VOC and Particulate
From Surface Coating Operations

Company Name: Prism Painting Company, Inc.
Address City IN Zip: 368 Kennedy Ave., Schererville, Indiana 46375
Permit Number: 089-28162-00544
Pit ID: 089-00544
Reviewer: Anne-Marie C. Hart
Date: July 22, 2009

Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (units/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
Ominthane 1	21.10	13.48%	0.0%	13.5%	0.0%	60.72%	0.35000	1.000	2.84	2.84	1.00	23.90	4.36	7.00	4.69	75%
Pota-Pox Series 20 Part A	14.22	22.08%	0.0%	22.1%	0.0%	55.44%	0.35000	1.000	3.14	3.14	1.10	26.37	4.81	4.25	5.66	75%
Pota-Pox Series 20 Part B	10.67	27.13%	0.0%	27.1%	0.0%	57.99%	0.35000	1.000	2.90	2.90	1.01	24.32	4.44	2.98	4.99	75%
F.C. Typoxy Part A	14.64	20.19%	0.0%	20.2%	0.0%	58.86%	0.35000	1.000	2.96	2.96	1.03	24.84	4.53	4.48	5.02	75%
F.C. Typoxy Part B	13.71	28.97%	0.0%	29.0%	0.0%	58.03%	0.35000	1.000	3.97	3.97	1.39	33.37	6.09	3.73	6.85	75%
Spra-Saf En Series 30	10.44	48.69%	0.0%	48.7%	0.0%	38.45%	0.35000	1.000	5.08	5.08	1.78	42.69	7.79	2.05	13.22	75%
Hi-Build Epoxiline Series 66 Part A	14.31	22.17%	0.0%	22.2%	0.0%	54.95%	0.35000	1.000	3.17	3.17	1.11	26.65	4.86	4.27	5.77	75%
Hi-Build Epoxiline Series 66 Part B	10.67	27.13%	0.0%	27.1%	0.0%	57.99%	0.35000	1.000	2.90	2.90	1.01	24.32	4.44	2.98	4.99	75%
Hi-Build Epoxiline II N69 Part A	15.27	17.26%	0.0%	17.3%	0.0%	63.17%	0.35000	1.000	2.64	2.64	0.92	22.15	4.04	4.84	4.17	75%
Hi-Build Epoxiline II N69 Part B	12.07	17.57%	0.0%	17.6%	0.0%	70.14%	0.35000	1.000	2.12	2.12	0.74	17.80	3.25	3.81	3.02	75%
Endura-Shield Series 73 Part A	12.71	24.26%	0.0%	24.3%	0.0%	59.67%	0.35000	1.000	3.08	3.08	1.08	25.90	4.73	3.69	5.17	75%
Endura-Shield Series 73 Part B	10.26	49.00%	0.0%	49.0%	0.0%	55.10%	0.35000	1.000	5.03	5.03	1.76	42.25	7.71	2.01	9.13	75%
Tneme-Zinc 90-97 Part A	8.99	42.58%	0.0%	42.6%	0.0%	47.23%	0.35000	1.000	3.03	3.03	1.34	32.14	5.87	1.98	8.10	75%
H.B. Tnem-Tulcoat 113 Part A	11.07	44.67%	0.0%	44.7%	0.0%	38.70%	0.35000	1.000	4.44	4.44	1.73	41.53	7.58	2.35	12.77	75%
H.B. Tnem-Tulcoat 113 Part B	9.05	24.52%	0.0%	24.5%	0.0%	70.80%	0.35000	1.000	2.22	2.22	0.78	18.64	3.40	2.62	3.13	75%
H.B. Tnem-Tulcoat 114 Part A	10.61	46.07%	0.0%	46.1%	0.0%	39.04%	0.35000	1.000	4.89	4.89	1.71	41.07	7.49	2.19	12.52	75%
H.B. Tnem-Tulcoat 114 Part B	9.05	24.52%	0.0%	24.5%	0.0%	70.80%	0.35000	1.000	2.22	2.22	0.78	18.64	3.40	2.62	3.13	75%
Tneme-Fasoure Series 161 Part A	13.99	21.04%	0.0%	21.0%	0.0%	58.15%	0.35000	1.000	2.94	2.94	1.03	24.73	4.51	4.23	5.06	75%
Tneme-Fasoure Series 161 Part B	10.67	27.13%	0.0%	27.1%	0.0%	57.99%	0.35000	1.000	2.90	2.90	1.01	24.32	4.44	2.98	4.99	75%
Endura-Shield II Series 1074 Part A	11.47	23.06%	0.0%	23.1%	0.0%	63.03%	0.35000	1.000	2.65	2.65	0.93	22.22	4.06	3.38	4.20	75%
Endura-Shield Series 1075 Part B	9.35	10.00%	0.0%	10.0%	0.0%	86.10%	0.35000	1.000	0.93	0.93	0.33	7.85	1.43	3.22	1.09	75%
Endura-Shield II Series 1075 Part A	12.53	17.69%	0.0%	17.7%	0.0%	68.81%	0.35000	1.000	2.22	2.22	0.78	18.61	3.40	3.95	3.22	75%
Endura-Shield II Series 1075 Part B	9.35	10.00%	0.0%	10.0%	0.0%	86.10%	0.35000	1.000	0.93	0.93	0.33	7.85	1.43	3.22	1.09	75%
Fluoronor Clear Series 1076 Part A	9.28	39.53%	0.0%	39.5%	0.0%	49.48%	0.35000	1.000	3.67	3.67	1.28	30.81	5.62	2.15	7.41	75%
Fluoronor Clear Series 1076 Part B	9.35	10.00%	0.0%	10.0%	0.0%	86.10%	0.35000	1.000	0.93	0.93	0.33	7.85	1.43	3.22	1.09	75%
DTM Acrylic Coating	9.69	16.00%	0.0%	16.0%	0.0%	38.00%	0.35000	1.000	1.55	1.55	0.54	13.02	2.38	3.12	4.08	75%
Hi-Mil Sher-Tar Epoxy Part A	10.00	23.00%	0.0%	23.0%	0.0%	69.00%	0.35000	1.000	2.30	2.30	0.81	19.32	3.53	2.95	3.33	75%
Hi-Mil Sher-Tar Epoxy Part B	9.21	27.00%	0.0%	27.0%	0.0%	65.00%	0.35000	1.000	2.49	2.49	0.87	20.89	3.81	2.58	3.83	75%
Tar Guard Coal Tar Epoxy (Part A)	11.13	20.00%	0.0%	20.0%	0.0%	70.00%	0.35000	1.000	2.23	2.23	0.78	18.70	3.41	3.11	3.18	75%
Tar Guard Coal Tar Epoxy (Part B)	9.70	0.00%	0.0%	0.0%	100.00%	0.35000	1.000	0.00	0.00	0.00	0.00	0.00	0.00	3.72	0.00	75%
Industrial Enamel	9.69	28.00%	0.0%	28.0%	0.0%	60.00%	0.35000	1.000	2.71	2.71	0.95	22.79	4.16	2.67	4.52	75%
Tile Clad (A)	12.53	25.00%	0.0%	25.0%	0.0%	57.00%	0.35000	1.000	3.13	3.13	1.10	26.31	4.80	3.60	5.50	75%
Tile Clad (B)	8.75	35.00%	0.0%	35.0%	0.0%	58.00%	0.35000	1.000	3.06	3.06	1.07	25.73	4.69	2.18	5.28	75%
Shopcoat Primer, Gray	9.73	40.00%	0.0%	40.0%	0.0%	40.00%	0.35000	1.000	3.89	3.89	1.36	32.69	5.97	2.24	6.73	75%
Cor-Cote HCR (A)	11.88	14.00%	0.0%	14.0%	0.0%	80.00%	0.35000	1.000	1.66	1.66	0.58	13.97	2.55	3.92	2.08	75%
Cor-Cote HCR (B)	8.56	21.00%	0.0%	21.0%	0.0%	78.00%	0.35000	1.000	1.80	1.80	0.63	15.10	2.76	2.59	2.30	75%
Kem Kromik	12.88	25.50%	0.0%	25.5%	0.0%	55.00%	0.35000	1.000	3.28	3.28	1.15	27.59	5.03	3.68	5.97	75%
Kem Bond	13.76	19.00%	0.0%	19.0%	0.0%	63.00%	0.35000	1.000	2.61	2.61	0.92	21.96	4.01	4.27	4.15	75%
Dura-Plate 235 (A)	12.65	17.00%	0.0%	17.0%	0.0%	70.00%	0.35000	1.000	2.15	2.15	0.75	18.06	3.30	4.02	3.07	75%
Macropoxy 646 (A)	13.41	2.00%	0.0%	2.0%	0.0%	72.00%	0.35000	1.000	0.27	0.27	0.09	2.25	0.41	5.04	0.37	75%
Macropoxy 646 (B)	13.46	12.00%	0.0%	12.0%	0.0%	76.00%	0.35000	1.000	1.62	1.62	0.57	13.57	2.48	4.54	2.13	75%
Acrolon 218 (A)	11.34	26.00%	0.0%	26.0%	0.0%	60.00%	0.35000	1.000	2.95	2.95	1.03	24.77	4.52	3.22	4.91	75%
Acrolon 218 (B)	9.41	0.00%	0.0%	0.0%	0.0%	100.00%	0.35000	1.000	0.00	0.00	0.00	0.00	0.00	3.61	0.00	75%
Hi-Solids Polyurethane (B)	9.60	0.00%	0.0%	0.0%	0.0%	100.00%	0.35000	1.000	0.00	0.00	0.00	0.00	0.00	3.68	0.00	75%
Hi-Solids Polyurethane (A)	12.78	6.00%	0.0%	6.0%	0.0%	78.00%	0.35000	1.000	0.77	0.77	0.27	6.44	1.18	4.60	0.98	75%
Polane T (A)	13.08	22.00%	0.0%	22.0%	0.0%	63.00%	0.35000	1.000	2.88	2.88	1.01	24.17	4.41	3.91	4.57	75%
Polane T (B)	9.36	8.00%	0.0%	8.0%	0.0%	90.00%	0.35000	1.000	0.75	0.75	0.26	6.29	1.15	3.30	0.83	75%
COR-COTE HT Tank Lining (Part B)	7.71	17.00%	0.0%	17.0%	0.0%	82.00%	0.35000	1.000	1.31	1.31	0.46	11.01	2.01	2.45	1.60	75%
Zinc Clad II (Part E)	8.17	65.00%	0.0%	65.0%	0.0%	24.00%	0.35000	1.000	5.31	5.31	1.86	44.61	8.14	1.10	22.13	75%
Zinc Clad II Plus (Part A)	10.70	35.00%	0.0%	35.0%	0.0%	50.00%	0.35000	1.000	3.75	3.75	1.31	31.46	5.74	2.67	7.49	75%
Zinc Clad II Plus (Part B)	7.75	80.00%	0.0%	80.0%	0.0%	7.00%	0.35000	1.000	6.20	6.20	2.17	52.08	9.50	0.59	88.57	75%
Zinc Clad III (Part A)	8.90	48.00%	0.0%	48.0%	0.0%	42.00%	0.35000	1.000	4.27	4.27	1.50	35.88	6.55	1.77	10.17	75%
Zinc Clad III (Part B)	7.85	61.00%	0.0%	61.0%	0.0%	32.00%	0.35000	1.000	4.79	4.79	1.68	40.22	7.34	1.17	14.96	75%
Zinc Clad IV (Part U)	28.33	9.00%	0.0%	9.0%	0.0%	65.00%	0.35000	1.000	2.55	2.55	0.89	21.42	3.91	9.88	3.92	75%
Zinc Clad IV (Part V)	11.10	20.00%	0.0%	20.0%	0.0%	70.00%	0.35000	1.000	2.22	2.22	0.78	18.65	3.40	3.40	3.17	75%
Interzinc 22 Part A	8.91	46.00%	0.0%	46.0%	0.0%	63.00%	0.35000	1.000	4.10	4.10	1.43	34.43	6.28	1.84	6.51	75%
Interzinc 22 Accelerator	0.00	0.00%	0.0%	0.0%	0.0%	0.00%	0.00000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75%
Carbothane 133HB Part A	12.08	29.00%	0.0%	29.0%	0.0%	57.00%	0.35000	1.000	3.50	3.50	1.23	29.42	5.37	3.29	6.15	75%
Urethane Converter 133	8.75	100.00%	0.0%	100.0%	0.0%	0.00%	0.35000	1.000	8.75	8.75	3.06	73.47	13.41	0.00	0.00	75%
Carboguard 888 Part A	12.50	22.00%	0.0%	22.0%	0.0%	63.00%	0.35000	1.000	2.75	2.75	0.96	23.09	4.21	3.74	4.36	75%
Carboguard 888 Part B	12.66	22.00%	0.0%	22.0%	0.0%	63.00%	0.35000	1.000	2.79	2.79	0.97	23.40	4.27	3.78	4.42	75%
Carbothane 133HB Part A	12.08	29.00%	0.0%	29.0%	0.0%	57.00%	0.35000	1.000	3.50	3.50	1.23	29.42	5.37	3.29	6.15	75%
Urethane Converter 133	8.75	100.00%	0.0%	100.0%	0.0%	0.00%	0.35000	1.000	8.75	8.75	3.06	73.47	13.41	0.00	0.00	75%
Carboguard 888 Part A	12.50	22.00%	0.0%	22.0%	0.0%	63.00%	0.35000	1.000	2.75	2.75	0.96	23.09	4.21	3.74	4.36	75%
Carboguard 888 Part B	12.66	22.00%	0.0%	22.0%	0.0%	63.00%	0.35000	1.000	2.79	2.79	0.97	23.40	4.27	3.78	4.42	75%
Bitumastic 300M (A)	10.99	17.00%	0.0%	17.0%	0.0%	74.00%	0.35000	1.000	1.87	1.87	0.65	15.69	2.86	3.50	2.52	75%
Bitumastic 300M (B)	9.66	19.00%	0.0%	19.0%	0.0%	74.00%	0.35000	1.000	1.84	1.84	0.64	15.42	2.81	3.00	2.48	75%
Carboguard 890 (A)	11.66	7.00%	0.0%	7.0%	0.0%	75.00%	0.35000	1.000	0.82	0.82	0.29	6.86	1.25	4.16	1.09	75%
Carboguard 890 (B)	14.49	6.00%	0.0%	6.0%	0.0%	75.00%	0.35000	1.000	0.87	0.87	0.30	7.30	1.33	5.22	1.16	75%
Carboxane 950	11.24	23.00%	0.0%	23.0%	0.0%	38.00%	0.35000	1.000	2.59	2.59	0.90	21.72	3.96	3.32	6.80	75%
Carboxane 2000 (A)	12.57	15.00%	0.0%	15.0%	0.0%	75.00%	0.35000	1.000	1.89	1.89	0.66	15.84	2.89	4.09	2.51	75%
Carboxane 2000 (B)	8.41	22.00%	0.0%	22.0%	0.0%	75.										

Appendix A: Emission Calculations

Abrasive Blasting - Confined

Company Name: Prism Painting Company, Inc.
Address City IN Zip: 368 Kennedy Ave., Schererville, Indiana 46375
Permit Number: 089-28162-00544
Plt ID: 089-00544
Reviewer: Anne-Marie C. Hart
Date: July 22, 2009

Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor	
	lb PM / lb abrasive	lb PM10 / 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/ft3)
Al oxides	160
Sand	99
Steel	487

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

Flow rate of Sand Through a Blasting Nozzle as a Function of Nozzle pressure and Internal Diameter

Internal diameter, in	Nozzle Pressure (psig)							
	30	40	50	60	70	80	90	100
1/8	28	35	42	49	55	63	70	77
3/16	65	80	94	107	122	135	149	165
1/4	109	138	168	195	221	255	280	309
5/16	205	247	292	354	377	420	462	507
3/8	285	355	417	477	540	600	657	720
7/16	385	472	560	645	755	820	905	940
1/2	503	615	725	835	945	1050	1160	1265
5/8	820	990	1170	1336	1510	1680	1850	2030
3/4	1140	1420	1670	1915	2160	2400	2630	2880
1	2030	2460	2900	3340	3780	4200	4640	5060

Calculations

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =

0.010

FR = Flow Rate (lb/hr) =

275.000

w = fraction of time of wet blasting =

0 %

N = number of nozzles =

1

Uncontrolled Emissions =	2.75 lb/hr
	12.05 ton/yr

METHODOLOGY

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

Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs

E = EF x FR x (1-w/200) x N

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Prism Painting Company, Inc.
Address City IN Zip: 368 Kennedy Ave., Schererville, Indiana 46375
Permit Number: 089-28162-00544
Plt ID: 089-00544
Reviewer: Anne-Marie C. Hart
Date: July 22, 2009

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
0.85	7.4
0.60	4 Process Heaters @ 0.15 MMBtu/hr each
0.25	2 Process Heaters @ 0.125 MMBtu/hr each

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10/PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100	5.5	84
				**see below		
Potential Emission in tons/yr	0.01	0.03	2.23E-03	0.37	0.02	0.31

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined. PM2.5 assumed equal to PM10.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	7.818E-06	4.468E-06	2.792E-04	6.701E-03	1.266E-05

Emission Factor in lb/MMcf	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.862E-06	4.095E-06	5.212E-06	1.415E-06	7.818E-06
	Total				
	7.026E-03				

Methodology is the same as above.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emissions Calculations
Storage Hoppers
Coal Slag**

Company Name: Prism Painting Company, Inc.
Address City IN Zip: 368 Kennedy Ave., Schererville, Indiana 46375
Permit Number: 089-28162-00544
Plt ID: 089-00544
Reviewer: Anne-Marie C. Hart
Date: July 22, 2009

$E_f = k \cdot 0.032 \cdot [(U/5)^{1.3} / (M/2)^{1.4}]$	
where E_f = emission factor (lb/ton)	
$k =$	0.74 PM particle size multiplier
	0.35 PM10 particle size multiplier
	0.053 PM2.5 particle size multiplier
$U =$	8 mean wind speed (mi/hr)
$M =$	3.6 material moisture content (%)

Maximum Materials Throughput Rate

Storage Hopper S1	600 tons/year
Storage Hopper S2	400 tons/year

	PM Emission Factor (lb/ton)	PM10 Emission Factor (lb/ton)	PM2.5 Emission Factor (lb/ton)	Potential PM Emissions (lb/year)	Potential PM10 Emissions (lb/year)	Potential PM2.5 Emissions (lb/year)	Potential PM Emissions (ton/year)	Potential PM10 Emissions (ton/year)	Potential PM2.5 Emissions (ton/year)
Hopper S1	0.01916	0.00906	0.00137	11.49	5.44	0.82	5.75E-03	2.72E-03	4.12E-04
Hopper S2	0.01916	0.00906	0.00137	7.66	3.62	0.55	3.83E-03	1.81E-03	2.74E-04
Total							9.58E-03	4.53E-03	6.86E-04

The following calculations determine the amount of emissions created by loading coal slag into hoppers (drop operation), based on 8,760 hours of use and USEPA's AP-42 Section 13.2.4., November 2006

Methodology

Potential Emissions (lb/year) = Emission Factor (lb/ton) x Maximum Materials Throughput Rate (tons/year)

Potential Emissions (tons/year) = Potential Emissions (lb/year) x 1 ton/2000 pounds

Mail Code 61-53

IDEM Staff	CDENNY 8/13/2009 Prism Painting Company, Inc. 089-28162-00544 (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		Scott Philipp Prism Painting Company, Inc. PO Box 1944 Highland IN 46322 (Source CAATS) VIA CONFIRMED DELIVERY										
2		James Mitchell Sr President/ Owner Prism Painting Company, Inc. PO Box 1944 Highland IN 46322 (RO CAATS)										
3		Gary - Hobart Water Corp 650 Madison St, P.O. Box M486 Gary IN 46401-0486 (Affected Party)										
4		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
5		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
6		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
7		Schererville Town Council and Town Manager 10 E Joliet Street Schererville IN 46375 (Local Official)										
8		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
9		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)										
10		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)										
11		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
12		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
13		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										
14		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										
15		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)										

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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Mail Code 61-53

IDEM Staff	CDENNY 8/13/2009 Prism Painting Company, Inc. 089-28162-00544 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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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		Robert 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										
2		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
3		Calumet Township Trustee 35 E 5th Avenue Gary IN 46402 (Affected Party)										
4		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
5		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										
6		CarCare 2000 411 Winston Ct. Schererville IN 46375 (Affected Party)										
7		Reichelt Plumbing, Inc. 451 Winston Ct. Schererville IN 46375 (Affected Party)										
8		Kellys Transmission 411 Winston Ct. Schererville IN 46375 (Affected Party)										
9		Adams Automotive 431 Winston Ct. Schererville IN 46375 (Affected Party)										
10		B & D Sewer and Backhoe Services 531 Winston Ct. Schererville IN 46375 (Affected Party)										
11		Cliffs Heating & Air Conditioning 344 Kennedy Avenue Schererville IN 46375 (Affected Party)										
12												
13												
14												
15												

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See 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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