



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: February 23, 2010

RE: Dexstar Wheel Company / 039-28908-00247

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

Dexstar Wheel Company
400 Collins Road
Elkhart, Indiana 46516

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. 039-28908-00247	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: February 23, 2010

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 metal wheel rim manufacturing company.

Source Address:	400 Collins Road, Elkhart, Indiana 46516
Mailing Address:	400 Collins Road, Elkhart, Indiana 46516
General Source Phone Number:	(574)295-3535
SIC Code:	3499
County Location:	Elkhart County
Source Location Status:	Attainment for all 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) primer electrodeposition (E-coat) station, identified as EU-1, constructed in 1995, where coatings are applied with a dipping operation, exhausting to one (1) stack, identified as Stack 1, maximum capacity: 600 metal parts per hour.
- (b) One (1) powder coating spray operation, equipped with an integral bag filter product recovery unit exhausting inside, capacity: 600 metal parts per hour and 0.15 pounds of coatings per part;
- (c) The following welding stations, collectively identified as EU-5, with a combined maximum throughput of 17,640 pounds per hour:
 - (1) Two (2) robotic MIG welders, capacity: 140 pounds of wire per hour, total, exhausting through Stack 5;
 - (2) One (1) auto MIG welder, capacity: 0.23 pound of wire per hour, exhausting through Stack 6;
- (d) Two (2) MIG rework welding stations, identified as EU-7, and exhausting through stacks 7 and 8, capacity: 1.40 pounds of electrodes per hour, total;
- (e) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, collectively identified as EU-3, including:
 - (1) One (1) air makeup unit, capacity: 4.38 million British thermal units per hour;
 - (2) Two (2) air makeup units, capacity: 2.40 million British thermal units per hour, each;
 - (3) One (1) powder coat oven, capacity: 3.00 million British thermal units per hour;
 - (4) One (1) E-coat oven, capacity: 8.00 million British thermal units per hour;
 - (5) One (1) Rite boiler in the E-coat area, constructed in 1995, exhausting to two (2)

- stacks, capacity: 8.40 million British thermal units per hour;
- (6) One (1) tube heater, capacity: 0.10 million British thermal units per hour, total;
 - (7) Miscellaneous combustion units, not including boilers, capacity: 0.16 million British thermal units per hour, total;
 - (8) One (1) natural gas-fired 10-stage wheel assembly washer, installed in 1995, using only water and a caustic solution to clean parts, maximum capacity: 600 parts and 5.0 million British thermal units per hour; and
 - (9) One (1) natural gas-fired 2-stage wheel assembly washer, installed in 2006, with a maximum heat input capacity of 2.7 million British thermal units per hour, using only water and caustic solution to clean parts, with a maximum throughput capacity of 600 parts per hour;
- (f) One (1) pad printing station, capacity: 4.41 pounds of ink per day; and
- (g) Parts washers, identified as EU-8, using only non-HAP materials, capacity: 0.15 tons per year of makeup solvent, total.

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. 039-28908-00247 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 forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.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).

C.3 General Record Keeping Requirements [326 IAC 2-5.5-4(b)]

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

C.4 General Reporting Requirements [326 IAC 2-5.5-4(b)]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1

OPERATION CONDITIONS

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

One (1) primer electrodeposition (E-coat) station, identified as EU-1, constructed in 1995, where coatings are applied with a dipping operation, exhausting to one (1) stack, identified as Stack 1, maximum capacity: 600 metal parts 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 2-8-4(1)]

D.1.1 VOC Limit [326 IAC 8-2-9]

The primer electrodeposition (E-coat) station shall use less than fifteen (15) pounds per day of VOC, including coatings, dilution solvents, and cleaning solvents. Compliance with this limit makes 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations) not applicable.

Compliance Determination Requirements

D.1.2 Volatile Organic Compounds (VOC)[326 IAC 8-1-2] [326 IAC 8-1-4]

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

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

D.1.3 Record Keeping Requirements

(a) To document compliance with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage limit established in Condition D.1.1.

(1) The VOC content of each coating material and solvent used less water.

(2) The amount of coating material and solvent used on a daily basis.

(A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.

(B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

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

D.1.4 Reporting Requirements

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

SECTION D.2 OPERATION CONDITIONS

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

- (b) One (1) powder coating spray operation, equipped with an integral bag filter product recovery unit exhausting inside, capacity: 600 metal parts per hour and 0.15 pounds of coatings per part;
- (c) The following welding stations, collectively identified as EU-5, with a combined maximum throughput of 17,640 pounds per hour:
 - (1) Two (2) robotic MIG welders, capacity: 140 pounds of wire per hour, total, exhausting through Stack 5;
 - (2) One (1) auto MIG welder, capacity: 0.23 pound of wire per hour, exhausting through Stack 6;
- (d) Two (2) MIG rework welding stations, identified as EU-7, and exhausting through stacks 7 and 8, capacity: 1.40 pounds of electrodes per hour, total;
- (e) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, collectively identified as EU-3, including:
 - (1) One (1) air makeup unit, capacity: 4.38 million British thermal units per hour;
 - (2) Two (2) air makeup units, capacity: 2.40 million British thermal units per hour, each;
 - (3) One (1) powder coat oven, capacity: 3.00 million British thermal units per hour;
 - (4) One (1) E-coat oven, capacity: 8.00 million British thermal units per hour;
 - (5) One (1) Rite boiler in the E-coat area, constructed in 1995, exhausting to two (2) stacks, capacity: 8.40 million British thermal units per hour;
 - (6) One (1) tube heater, capacity: 0.10 million British thermal units per hour, total;
 - (7) Miscellaneous combustion units, not including boilers, capacity: 0.16 million British thermal units per hour, total;
 - (8) One (1) natural gas-fired 10-stage wheel assembly washer, installed in 1995, using only water and a caustic solution to clean parts, maximum capacity: 600 parts and 5.0 million British thermal units per hour; and
 - (9) One (1) natural gas-fired 2-stage wheel assembly washer, installed in 2006, with a maximum heat input capacity of 2.7 million British thermal units per hour, using only water and caustic solution to clean parts, with a maximum throughput capacity of 600 parts per hour;
- (f) One (1) pad printing station, capacity: 4.41 pounds of ink per day; and
- (g) Parts washers, identified as EU-8, using only non-HAP materials, capacity: 0.15 tons per year of makeup solvent, total.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the 8.40 million British thermal units per hour heat input boiler shall be limited to 0.6 pounds per million British thermal units heat input.

D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for the parts washers which are cold cleaning operations constructed after January 1, 1980, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.2.3 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate from the two (2) robotic MIG welders and the one (1) auto MIG welder, collectively identified as EU-5, with a combined maximum throughput of 17,640 pounds per hour plus rods, shall not exceed 17.7 pounds per hour when operating at a process weight rate of 8.89 tons per hour. The pounds per hour limitation was calculated using the following 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) The bag filter product recovery unit for the powder coating spray operation must be in operation and must control emissions from the powder coating spray operation at all times when the powder coating spray operation is in operation in order for the bag filter product recovery unit to be considered integral to the process. Any change or modification in which the bag filter product recovery unit does not operate or is not considered integral to the process shall cause the powder coating spray operation to be subject to 326 IAC 6-3 and may cause the source to become subject to 326 IAC 2-7, Part 70. Therefore, such change or modification shall require prior IDEM, OAQ, approval.

**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:	Dexstar Wheel Company
Address:	400 Collins Road
City:	Elkhart, Indiana 46516
Phone Number:	(574) 295-3535
Registration No.:	039-28908-00247

I hereby certify that Dexstar Wheel Company is :

still in operation.

I hereby certify that Dexstar Wheel Company is :

no longer in operation.

in compliance with the requirements of Registration No. 039-28908-00247.

not in compliance with the requirements of Registration No. 039-28908-00247.

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
COMPLIANCE AND ENFORCEMENT BRANCH**

**Registration Quarterly Report
(Submit one form for each month in the quarter)**

Source Name: Dexstar Wheel Company
Source Address: 400 Collins Road, Elkhart, Indiana 46516
Mailing Address: 400 Collins Road, Elkhart, Indiana 46516
Registration No.: 039-28908-00247
Facility: One (1) primer electrodeposition (E-coat) station
Parameter: VOC Usage
Limit: Less than fifteen (15) pounds per day of VOC, including coatings, dilution solvents, and cleaning solvents.

Month: _____ Year: _____

Day	VOC Usage (lb/day)	Day	VOC Usage (lb/day)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

- No deviation occurred in this month.
- 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 FESOP Transitioning to a Registration

Source Description and Location

Source Name: Dexstar Wheel Company
Source Location: 400 Collins Road, Elkhart, Indiana 46516
County: Elkhart
SIC Code: 3499
Registration No.: 039-28908-00247
Permit Reviewer: Jack Harmon

On January 25, 2010, the Office of Air Quality (OAQ) received an application from Dexstar Wheel Company related to the construction and operation of new emission units at an existing stationary metal wheel rim manufacturing company and transition from a FESOP to a Registration.

Existing Approvals

The source has been operating under FESOP No. 039-20599-00247, issued on October 3, 2005.

Due to this application, the source is transitioning from a FESOP to a Registration.

County Attainment Status

The source is located in Elkhart County.

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

¹Attainment effective October 18, 2000, for the 1-hour ozone standard for the South Bend-Elkhart area, including Elkhart County, and is a maintenance area for the 1-hour National Ambient Air Quality Standards (NAAQS) for purposes of 40 CFR 51, Subpart X*. The 1-hour standard was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM_{2.5}.

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Elkhart County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM_{2.5}

Elkhart County has been classified as attainment for PM_{2.5}. On May 8, 2008 U.S. EPA

promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions, and the effective date of these rules was July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions until 326 IAC 2-2 is revised.

(c) Other Criteria Pollutants

Elkhart County has been classified as attainment or unclassifiable in Indiana for all other 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 2-5.5 (Registrations) applicability.

Background and Description of Emission Units and Pollution Control Equipment

The Office of Air Quality (OAQ) has reviewed an application, submitted by Dexstar Wheel Company on January 25, 2010, requesting a transition of its permit level from FESOP to Registration for its existing stationary metal wheel rim manufacturing company. The source has changed its coating component materials on its electrodeposition (E-coat) station and is now using pastes and resins containing minimal amounts of hazardous air pollutants, as compared to the previous paste and resin used at the facility. Therefore, the facility's potential to emit has decreased to below major thresholds. Formic acid is no longer used at the facility. Additionally, the source requests to update the emissions units descriptions as detailed in Section A of the permit. Finally, the source requests to add a natural gas-fired 2.7 MMBtu washer to Section A of the permit. The unit was constructed in 2006 and did not require prior approval to construct and operate. The effect of the above-described changes results in the decrease of the potential to emit of criteria pollutants to threshold levels of a Registration. Therefore, a Registration will be issued.

The source consists of the following existing emission units:

- (a) One (1) primer electrodeposition (E-coat) station, identified as EU-1, constructed in 1995, where coatings are applied with a dipping operation, exhausting to one (1) stack, identified as Stack 1, maximum capacity: 600 metal parts per hour.
- (b) One (1) powder coating spray operation, equipped with an integral bag filter product recovery unit exhausting inside, capacity: 600 metal parts per hour and 0.15 pounds of coatings per part;
- (c) The following welding stations, collectively identified as EU-5, with a combined maximum throughput of 17,640 pounds per hour:
 - (1) Two (2) robotic MIG welders, capacity: 140 pounds of wire per hour, total, exhausting through Stack 5;
 - (2) One (1) auto MIG welder, capacity: 0.23 pound of wire per hour, exhausting through Stack 6;
- (d) Two (2) MIG rework welding stations, identified as EU-7, and exhausting through stacks 7 and 8, capacity: 1.40 pounds of electrodes per hour, total;
- (e) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, collectively identified as EU-3, including:
 - (1) One (1) air makeup unit, capacity: 4.38 million British thermal units per hour;

- (2) Two (2) air makeup units, capacity: 2.40 million British thermal units per hour, each;
 - (3) One (1) powder coat oven, capacity: 3.00 million British thermal units per hour;
 - (4) One (1) E-coat oven, capacity: 8.00 million British thermal units per hour;
 - (5) One (1) Rite boiler in the E-coat area, constructed in 1995, exhausting to two (2) stacks, capacity: 8.40 million British thermal units per hour;
 - (6) One (1) tube heater, capacity: 0.10 million British thermal units per hour, total;
 - (7) Miscellaneous combustion units, not including boilers, capacity: 0.16 million British thermal units per hour, total;
 - (8) One (1) natural gas-fired 10-stage wheel assembly washer, installed in 1995, using only water and a caustic solution to clean parts, maximum capacity: 600 parts and 5.0 million British thermal units per hour; and
 - (9) One (1) natural gas-fired 2-stage wheel assembly washer, installed in 2006, with a maximum heat input capacity of 2.7 million British thermal units per hour, using only water and caustic solution to clean parts, with a maximum throughput capacity of 600 parts per hour;
- (f) One (1) pad printing station, capacity: 4.41 pounds of ink per day; and
- (g) Parts washers, identified as EU-8, using only non-HAP materials, capacity: 0.15 tons per year of makeup solvent, total.

“Integral Part of the Process” Determination

In its initial FESOP application, the source had submitted information to justify why the bag filter product recovery unit should be considered an integral part of the powder coating spray operation, described as follows:

- (b) One (1) powder coating spray operation, equipped with an integral bag filter product recovery unit exhausting inside, capacity: 600 metal parts per hour and 0.15 pounds of coatings per part;

During the FESOP permitting stage, IDEM, OAQ evaluated the information submitted and agreed that the bag filter product recovery unit should be considered an integral part of the powder coating spray operation. Operating conditions in the proposed permit will specify that this bag filter product recovery unit shall operate at all times when the powder coating spray operation is running. This determination was made under FESOP No. 039-20599-00247, issued on October 3, 2005.

Enforcement Issues

There are no pending enforcement actions related to this source.

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
E-coat Station	0.00	0.00	0.00	0.00	0.00	10.66	0.00	1.61	1.61 (glycol)
Powder Coating	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00
Welding	3.41	3.41	3.41	0.00	0.00	0.00	0.00	0.31	0.31 (manganese)
Natural Gas Combust	0.30	1.22	1.22	0.10	16.00	0.88	13.40	0.30	0.288 (hexane)
Pad Printing	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.80	0.72 (glycol)
Parts Washers	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
Total PTE of Entire Source	4.70	5.62	5.62	0.10	16.00	12.05	13.40	3.02	2.33 (glycol)
Registration Levels	25	25	25	25	25	25	100	25	10

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

Criteria Pollutants

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of all criteria pollutants are within the ranges listed in 326 IAC 2-5.5-1(b)(1). The PTE of all other regulated criteria pollutants are less than the ranges listed in 326 IAC 2-5.5-1(b)(1). Therefore, the source is subject to the provisions of 326 IAC 2-5.5 (Registrations). A Registration will be issued.

Hazardous Air Pollutants

- (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 one (1) boiler has a capacity less than two hundred and fifty (250) million British thermal units per hour. Therefore, the requirements of 40 CFR 60, Subparts D and Da, Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971, and Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978, are not included in the permit.
- (b) The one (1) boiler has a capacity less than one hundred (100) million British thermal units per hour.

Therefore, the requirements of 40 CFR 60, Subpart Db, Standards of Performance for Industrial-commercial-Institutional Steam Generating Units, are not included in the permit.

- (c) The one (1) boiler, which was constructed after June 9, 1989, has a maximum design heat input capacity less than ten (10) million British thermal units per hour. Therefore, the requirements of 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units, are not included in the permit.
- (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)

- (a) This source is not a major source of HAPs. Therefore, the requirements of 40 CFR 63, Subpart MMMM, National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products, are not included in the permit.
- (b) The parts washers at this source do not use halogenated solvents. Therefore, the requirements of 40 CFR 63, Subpart T, National Emission Standards for Halogenated Solvent Cleaning, are not included in the permit.
- (c) 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)

- (a) 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

State Rule Applicability – Entire Source

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

The unrestricted potential emissions of each attainment criteria pollutant are less than two hundred-fifty (250) tons per year. Therefore, this source, which is not one of the twenty-eight (28) listed source categories, is a minor source pursuant to 326 IAC 2-2, PSD.

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

The primer electrodeposition (E-coat) station was constructed prior to July 27, 1997. Therefore, the requirements of 326 IAC 2-4.1 are not applicable.

326 IAC 2-5.5 (Registrations)

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

326 IAC 2-6 (Emission Reporting)

This source is not located in Lake or Porter County with the potential to emit greater than twenty-five (25) tons per year of NO_x, does not emit five (5) tons per year or more of lead and does not require a Part 70 Operating Permit. Therefore, the requirements of 326 IAC 2-6 do not apply.

326 IAC 5-1 (Opacity Limitations)

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

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

State Rule Applicability – Individual Facilities

326 IAC 6-2 (Particulate Emissions Limitations for Sources of Indirect Heating)

The one (1) Rite boiler in the E-coat area was constructed in 1995. Therefore, the boiler is subject to the requirements of 326 IAC 6-2-4. The particulate emission limitations of 326 IAC 6-2-4 are based on the following equation given in 326 IAC 6-2-4:

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

where:

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

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

$$Pt = 1.09 / 8.40^{0.26} = 0.63 \text{ lb/MMBtu}$$

Pursuant to 326 IAC 6-2-4, "For Q less than 10 MMBtu/hr, Pt shall not exceed 0.6." Therefore, the limitation for the boiler is 0.6 lb/MMBtu.

Based on Appendix A and AP-42, the potential to emit PM from the natural gas-fired boiler is:

$$1.90 \text{ lb/MMcf} \times 1 \text{ MMcf}/1,000 \text{ MMBtu} = 0.0019 \text{ lb/MMBtu}$$

Therefore, the boiler will comply with this rule.

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

- (a) The primer electrodeposition (E-coat) station is a dip coating operation. Therefore, pursuant to 326 IAC 6-3-1(b)(5), the E-coat station is exempt from the requirements of 326 IAC 6-3-2.
- (b) The natural gas combustion units are exempt from the requirements of 326 IAC 6-3, because, pursuant to 326 IAC 1-2-59, liquid and gaseous fuels and combustion air are not considered as part of the process weight.
- (c) The pad printing station has potential particulate emissions less than 0.551 pounds per hour. Therefore, pursuant to 326 IAC 6-3-1(b)(14), the pad printing station is exempt from the requirements of 326 IAC 6-3-2.
- (d) The powder coating operation has potential particulate emissions less than 0.551 pounds per hour. Therefore, pursuant to 326 IAC 6-3-1(b)(14), the powder coating is exempt from the requirements of 326 IAC 6-3-2. The integral bag filter product recovery unit for the powder coating must be in operation and control emissions from the powder coating operation at all times when the powder coating is in operation in order for the bag filter product recovery unit

to be considered integral to the process.

- (e) The two (2) rework welding stations, identified as EU-7, consume less than six hundred and twenty-five (625) pounds of welding rod per day. Therefore, pursuant to 326 IAC 6-3-1(b) (9), the rework welding stations are exempt from the requirements of 326 IAC 6-3.
- (f) The particulate from the two (2) robotic MIG welders and the one (1) auto MIG welder, collectively identified as EU-5, with a combined maximum throughput of 17,640 pounds per hour plus rods, shall not exceed 17.7 pounds per hour when operating at a process weight rate of 8.89 tons per hour. The pounds per hour limitation was calculated using the following equation:

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

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The potential SO₂ emissions from this source are less than ten (10) pounds per hour and twenty-five (25) tons per year. Therefore, this source is not subject to the requirements of 326 IAC 7-1.1.

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

- (a) The primer electrodeposition (E-coat) station is regulated by 326 IAC 8-2-9. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.
- (b) The unrestricted potential VOC emissions from all other facilities, all constructed after January 1, 1980, are less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

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

- (a) Pursuant to 326 IAC 8-2-1, the provisions of 326 IAC 8-2-9 apply to miscellaneous metal coating operations constructed after July 1, 1990, located in any county, and which have actual emissions of greater than fifteen (15) pounds per day before add-on controls. The potential to emit of primer electrodeposition (E-coat) station is greater than fifteen (15) pounds per day, but the source has opted to limit the VOC input to less than fifteen (15) pounds per day in order to render the requirements of 326 IAC 8-2-9 not applicable.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

Based on the MSDS submitted by the source and calculations made, the primer electro-deposition (E-coat) station is in compliance with this requirement.

- (b) There are no VOC emissions from the insignificant powder coating operation. Therefore, the requirements of 326 IAC 8-2-9 are not applicable.

326 IAC 8-3 (Organic Solvent Degreasing Operations)

- (a) The parts washers at this source are cold cleaner degreasers that were constructed after January 1, 1980. Therefore, the parts washers are subject to 326 IAC 8-3-2. Pursuant to 326 IAC 8-3-2, the Permittee shall:
 - (1) Equip the cleaner with a cover;
 - (2) Equip the cleaner with a facility for draining cleaned parts;
 - (3) Close the degreaser cover whenever parts are not being handled in the cleaner;

- (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (5) Provide a permanent, conspicuous label summarizing the operation requirements;
 - (6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.
- (b) The parts washers at this source are cold cleaner degreasers that are equipped with remote solvent reservoirs. Therefore, the requirements of 326 IAC 8-3-5 are not applicable.
- (c) The one (1) natural gas-fired 10-stage wheel assembly washer does not use organic solvents. Therefore, the requirements of 326 IAC 8-3 are not applicable.

326 IAC 9-1 (Carbon Monoxide Emission Limits)

This source does not consist of petroleum refining operations, ferrous metal smelting or a refuse incinerator. Therefore, the source is not subject to the requirements of 326 IAC 9-1.

326 IAC 10-4 (Nitrogen Oxides Budget Trading Program)

The combustion facilities at this source have capacities less than 250 million British thermal units per hour. Thus, they are not large affected units pursuant to 326 IAC 10-4-2. They are also not electricity generating units, pursuant to 326 IAC 10-4-2, because they do not produce electricity for sale. Therefore, the requirements of 326 IAC 10-4 are not applicable.

Testing Requirements

There is no testing specifically required at this time.

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 January 25, 2010.

The operation of this source shall be subject to the conditions of the attached proposed Registration No. 039-28908-00247. The staff recommends to the Commissioner that this Registration be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Jack Harmon 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) 233-4228 or toll free at 1-800-451-6027 extension 3-4228.
- (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: Emission Calculations
Summary of Total Emissions**

Company Name: Dexstar Wheel Company
Address City IN Zip: 400 Collins Road, Elkhart, Indiana 46515
Permit Number: 039-28908-00247
Reviewer: Jack Harmon
Date: 02/01/10

Unrestricted Potential to Emit

Process	Pollutant Emissions (tons/yr)						HAP Emissions (tons/yr)						
	PM	PM10	SO2	NOx	VOC	CO	Glycol Ethers	Formaldehyde	Hexane	Manganese	Xylene	Cumene	Total HAPs
Significant Activities													
E-coat Station	0.00	0.00	0.00	0.00	10.66	0.00	1.61	0.00	0.00	0.00	0.00	0.00	1.610
Insignificant Activities													
Powder Coating Spray Operation	0.986	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
Welding	3.41	3.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.310
Natural gas Combustion	0.3	1.22	0.10	16.00	0.88	13.4	0.00	0.012	0.2881	0.00	0.00	0.00	0.300
Pad printing	0.00	0.00	0.00	0.00	0.36	0.00	0.72	0.00	0.00	0.00	0.040	0.040	0.798
Parts Washers	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
Total	4.70	5.62	0.10	16.00	12.05	13.4	2.33	0.012	0.288	0.310	0.040	0.040	3.018
Registration Threshold (tpy)	>5 <25	>5 <25	>10 <25	>10 <25	>5 <25	>25 <100							

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

**Company Name: Dexstar Wheel Company
Address City IN Zip: 400 Collins Road, Elkhart, Indiana 46516
Permit Number: 039-28908-00247
Reviewer: Jack Harmon
Date: 02/01/10**

Material	Weight % Volatile (H2O & Organics)	Volume % Non-Volatiles (solids)	Material Usage (lbs/unit)	Maximum (unit/hour)	Uncontrolled Particulate Potential (ton/yr)	Controlled Particulate Potential (ton/yr)	Transfer Efficiency
Powder Coat	0.000%	100.00%	0.15	600	98.55	0.986	75%

PM Control Efficiency: 99.00%

The control device is considered integral. Therefore, the unrestricted potential emissions are the controlled emissions.

METHODOLOGY

PM10 and PM2.5 presumed to be equal to PM

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

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

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

**Company Name: Dexstar Wheel Company
Address City IN Zip: 400 Collins Road, Elkhart, Indiana 46516
Permit Number: 039-28908-00247
Reviewer: Jack Harmon
Date: 02/01/10**

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
			PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING											
2 Robotic Metal Inert Gas (MIG) Welders (Carbon steel - ER70S6)	2	70	0.0055	0.0005			0.770	0.070	0.000	0	0.070
1 Metal Inert Gas (MIG) Welder (Carbon steel ER70S6)	1	0.23	0.0055	0.0005			0.001	0.000	0.000	0	0.000
2 Rework Metal Inert Gas (MIG) Welding (Carbon steel ER70S6)	2	0.7	0.0055	0.0005			0.008	0.001	0.000	0	0.001
EMISSION TOTALS											
Potential Emissions lbs/hr							0.78				0.07
Potential Emissions lbs/day							18.70				1.70
Potential Emissions tons/year							3.41				0.31

METHODOLOGY

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.
Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0039 lb/1,000 in. cut, 8 mm thick
Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)
Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day
Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs

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

**Company Name: Dexstar Wheel Company
Address City IN Zip: 400 Collins Road, Elkhart, Indiana 46515
Permit Number: 039-28908-00247
Reviewer: Jack Harmon
Date: 02/01/10**

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

*PM emission factor is filterable PM only. PM-10 emission factor is filterable and condensable PM-10 combined.

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

Equipment	Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Potential Emission in tons/yr					
			PM*	PM10*	SO2	NOx	VOC	CO
10-stage Washer	5.00	43.8	0.042	0.166	0.013	2.190	0.120	1.840
2-Stage Wheel Assembly Washer	2.70	23.65	0.022	0.090	0.007	1.183	0.065	0.993
Air Makeup Units	9.18	80.4168	0.076	0.306	0.024	4.021	0.221	3.378
Powder Coat Oven	3.00	26.28	0.025	0.100	0.008	1.314	0.072	1.104
E-coat Oven	8.00	70.08	0.067	0.266	0.021	3.504	0.193	2.943
Rite Boiler	8.40	73.584	0.070	0.280	0.022	3.679	0.202	3.091
Tube Heaters	0.10	0.876	0.001	0.003	0.000	0.044	0.002	0.037
Miscellaneous	0.16	1.4016	0.001	0.005	0.000	0.070	0.004	0.059
Total	36.54	320.09	0.304	1.22	0.096	16.0	0.880	13.4

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

(SUPPLEMENT D 3/98)

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

See page 6 for HAPs emissions calculations.

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

**Company Name: Dexstar Wheel Company
 Address City IN Zip: 400 Collins Road, Elkhart, Indiana 46515
 Permit Number: 039-28908-00247
 Reviewer: Jack Harmon
 Date: 02/01/10**

HAPs - Organics

Emission Factor in lb/MMcf	Benzene 2.1000E-03	Dichlorobenzene 1.2000E-03	Formaldehyde 7.5000E-02	Hexane 1.8000E+00	Toluene 3.4000E-03
Potential Emission in tons/yr	0.0003	0.0002	0.012	0.288	0.0005

HAPs - Metals

Emission Factor in lb/MMcf	Lead 5.0000E-04	Cadmium 1.1000E-03	Chromium 1.4000E-03	Manganese 3.8000E-04	Nickel 2.1000E-03	Total HAPs
Potential Emission in tons/yr	0.0001	0.0002	0.0002	0.0001	0.0003	0.302

Methodology is the same as page 5.

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



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: Brian Jones
Dexstar Wheel Company
400 Collins Rd
Elkhart, IN 46516

DATE: February 23, 2010

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

SUBJECT: Final Decision
Registration
039-28908-00247

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:
Tim Sandy (EH&S)
Brooke A. Myer (August Mack Environmental, Inc)
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	MIDENNEY 2/23/2010 Dexstar Wheel Co 039-28908-00247 (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		Brian Jones Dexstar Wheel Co 400 Collins Rd Elkhart IN 46516 (Source CAATS) via confirmed delivery										
2		Tim Sandy EH&S Dexstar Wheel Co 400 Collins Rd Elkhart IN 46516 (RO CAATS)										
3		Elkhart City Council and Mayors Office 229 South Second Street Elkhart IN 46516 (Local Official)										
4		Elkhart County Health Department 608 Oakland Avenue Elkhart IN 46516 (Health Department)										
5		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
6		Elkhart County Board of Commissioners 117 North Second St. Goshen IN 46526 (Local Official)										
7		Brooke A. Myer August Mack Environmental, Inc. 1200 N. Meridian Street, Suite 300 Indianapolis IN 46204 (Consultant)										
8												
9												
10												
11												
12												
13												
14												
15												

Total number of pieces Listed by Sender 6	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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