



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: Dec. 29, 2010

RE: Stellite Coatings / 039-29603-00078

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

Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER-AM.dot12/3/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Mr. Scott Dunnuck
Stellite Coatings
1201 Eisenhower Drive North
Goshen, IN 46526

Dec. 29, 2010

Re: 039-29603-00078
Third Registration Notice-Only Change to
R039-14366-00078

Dear Mr. Dunnuck:

Stellite Coatings was issued a Registration No. R039-14366-00078 on August 7, 2001 for a stationary metal powder manufacturing source located at 1201 Eisenhower Drive North, Goshen, IN 46526. On August 30, 2010, the Office of Air Quality (OAQ) received an application from the source relating to construction and operation of a Rod/Wire Casting Fume Hood, with particulate emissions controlled by baghouse DC6 (see Appendix A for calculations). Baghouse DC 9 is added to control particulate emissions for the Castable Rework Operation.

The attached Technical Support Document (TSD) provides additional explanation of the changes to the source. The addition of this unit to the registration is considered a notice-only change, since the potential emissions of regulated criteria pollutants and hazardous air pollutants are less than the ranges specified in 326 IAC 2-5.5-6(d)(10) and 326 IAC 2-5.5-6(d)(12), respectively. The uncontrolled/unlimited potential to emit of the entire source will continue to be within the threshold levels specified in 326 IAC 2-5.5-1(b)(1). No new state rules are applicable to this source. There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) or National Emission standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 20 and 40 CFR Part 61, 63) included in this notice-only change.

The source shall continue to operate according to 326 IAC 2-5.5. Please find enclosed the revised registration.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Bruce Farrar, at (800) 451-6027, press 0 and ask for Bruce Farrar or extension 4-5401, or dial (317) 234-5401.

Sincerely,

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

IC/bf

Attachment: Notice Only Change Registration
Appendix A

cc: File - Elkhart County
Elkhart County Health Department
Compliance and Enforcement Branch
Billing, Licensing and Training Section



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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RE-REGISTRATION OFFICE OF AIR QUALITY

Stellite Coatings
1201 Eisenhower Drive North
Goshen, Indiana 46526

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. 039-14366-00078 | |
| Issued by: <i>Original Signed by</i> Paul Dubenetzky, Chief Permits Branch Office of Air Quality | Issuance Date: August 7, 2001 |

First Registration Revision No. 039-15682-00078, issued on February 3, 2003
First Registration Notice-Only Change No. 039-23709-00078, issued on October 24, 2006
Second Registration Notice-Only Change No. 039-25404-00078, issued on October 31, 2007

| | |
|---|-------------------------------------|
| Third Registration Notice Only Change No. 039-29603-00078 | |
| Issued by:  Iryn Callung, Section Chief Permits Branch Office of Air Quality | Issuance Date: Dec. 29, 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 powder manufacturing facility.

| | |
|------------------------------|--|
| Source Address: | 1201 Eisenhower Drive North, Goshen, Indiana 46526 |
| General Source Phone Number: | (574) 534-2585 |
| SIC Code: | 3369 |
| 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) air melt atomization tower, constructed in 1990, with a maximum capacity of 800 pounds per hour, equipped with a product cyclone that is considered integral to the process, controlled by Baghouse DC1.
- (b) One (1) fume hood, constructed in 2006, with a maximum process rate of less than 100 pounds per hour, controlled by Baghouse DC2.
- (c) One (1) air melt atomization tower, constructed in 2007, with a maximum capacity of 800 pounds per hour, equipped with a product cyclone that is considered integral to the process, controlled by Baghouse DC3 and exhausting to outdoor.
- (d) One (1) Cobalt classifying operation, constructed in 1990, with a maximum process rate of 975 pounds of metal per hour, controlled by Baghouse DC4.
- (e) One (1) Iron/Nickel classifying operation, constructed in 1990, with a maximum process rate of 975 pounds of metal per hour, controlled by Baghouse DC5.
- (f) One (1) castable rework operation, constructed in 1990, with a maximum process rate of less than 100 pounds per hour, controlled by Baghouse DC9.
- (g) One (1) welding application and testing facility, constructed in 1990, with a maximum process rate of less than 100 pounds per hour, controlled by Baghouse DC7.
- (h) One (1) Rod/Wire Casting fume hood, approved for construction in 2010, with a maximum process rate of less than 100 pounds per hour, controlled by Baghouse DC6.
- (i) One (1) spray booth, identified as Booth A, constructed in 2002, using a powder coating process, with a maximum coating usage of 20 pounds per hour and a maximum throughput rate of 24 pounds of parts per hour, controlled by Baghouse DC8. This booth is located in the Research and Development Laboratory and is used only for experimental study and testing. The total spray time of Booth A is less than 1,143 hours per year.

- (j) One (1) spray booth, identified as Booth B, constructed in 2002, using a powder coating process, with a maximum coating usage of 10 pounds per hour, controlled by Baghouse DC8. This booth is located in Quality Control Laboratory and is used only for experimental study and testing. The total spray time of this booth is less than 95 hours per year.

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. 039-14366-00078 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.

B.8 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this registration, the Registrant shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this registration or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Registrant's control, the PMPs cannot be prepared and maintained within the above time frame, the Registrant may extend the date an additional ninety (90) days provided the Registrant notifies:

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

The Registrant shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Registrant to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (c) To the extent the Registrant is required by 40 CFR Part 60 or 40 CFR Part 63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such OMM Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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).

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) air melt atomization tower, constructed in 1990, with a maximum capacity of 800 pounds per hour, equipped with a product cyclone that is considered integral to the process, controlled by Baghouse DC1.
- (b) One (1) fume hood, constructed in 2006, with a maximum process rate of less than 100 pounds per hour, controlled by Baghouse DC2.
- (c) One (1) air melt atomization tower, constructed in 2007, with a maximum capacity of 800 pounds per hour, equipped with a product cyclone that is considered integral to the process, controlled by Baghouse DC3 and exhausting to outdoor.
- (d) One (1) Cobalt classifying operation, constructed in 1990, with a maximum process rate of 975 pounds of metal per hour, controlled by Baghouse DC4.
- (e) One (1) Iron/Nickel classifying operation, constructed in 1990, with a maximum process rate of 975 pounds of metal per hour, controlled by Baghouse DC5.
- (f) One (1) castable rework operation, constructed in 1990, with a maximum process rate of less than 100 pounds per hour, controlled by Baghouse DC9.
- (g) One (1) welding application and testing facility, constructed in 1990, with a maximum process rate of less than 100 pounds per hour, controlled by Baghouse DC7.
- (h) One (1) Rod/Wire Casting fume hood, approved for construction in 2010, with a maximum process rate of less than 100 pounds per hour, controlled by Baghouse DC6.
- (i) One (1) spray booth, identified as Booth A, constructed in 2002, using a powder coating process, with a maximum coating usage of 20 pounds per hour and a maximum throughput rate of 24 pounds of parts per hour, controlled by Baghouse DC8. This booth is located in the Research and Development Laboratory and is used only for experimental study and testing. The total spray time of Booth A is less than 1,143 hours per year.
- (j) One (1) spray booth, identified as Booth B, constructed in 2002, using a powder coating process, with a maximum coating usage of 10 pounds per hour, controlled by Baghouse DC8. This booth is located in Quality Control Laboratory and is used only for experimental study and testing. The total spray time of this booth is less than 95 hours per year.

(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 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

D.1.1 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2(e) (Particulate Emission Limitations for Manufacturing Processes), the particulate matter emissions from the processes listed in the table below shall not exceed the following:

| Emission Unit | Process Weight Rate (lbs/hr) | Allowable PM Limit (lbs/hr) |
|---|------------------------------|-----------------------------|
| two (2) air melt atomization towers/DC1 and DC3 | 800, each | 2.22, each |
| cobalt classifying operation/DC4 | 975 | 2.53 |
| iron/nickel classifying operation/DC5 | 975 | 2.53 |
| spray coating booth A/DC8 | 44 | 0.551 |
| spray coating booth B/DC8 | 10 | 0.551 |

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(e)(2), the allowable particulate emissions from the fume hood, the castable rework, the weld application and the Rod/Wire Casting fume hood shall not exceed 0.551 lbs/hr each.

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for this facility and its control device. Section B - Preventive Maintenance Plan contains the Registrant's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

D.1.3 Cyclone Operations

In order to show compliance with condition D.1.1(a), the product cyclones associated with both air melt atomization towers must be in operation when the towers are in operation, as they are considered integral part of the process.

D.1.4 Baghouse Operations

In order to show compliance with condition D.1.1(b), the baghouses shall be in operation when the processes are in operation.

Compliance Monitoring Requirements [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

D.1.5 Cyclone Inspection

An inspection shall be performed each calendar quarter of all cyclones controlling the two (2) air melt atomization towers, when exhausting to the atmosphere. A cyclone inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors.

D.1.6 Cyclone Failure Detection

In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Failure to take response steps shall be considered a deviation from this permit.

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

D.1.7 Record Keeping Requirements

To document the compliance status with Condition D.1.4, the Permittee shall maintain records of the inspections of the cyclones controlling the two (2) air melt atomization towers.

**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: | Stellite Coatings |
| Address: | 1201 Eisenhower Drive North, |
| City: | Goshen, Indiana 46526 |
| Phone Number: | (574) 534-2585 |
| Registration No.: | 039-14366-00078 |

I hereby certify that Stellite Coatings

- is : still in operation.
 no longer in operation.

I hereby certify that Stellite Coatings

- is : in compliance with the requirements
of Registration No. 039-14366-00078.
 not in compliance with the requirements
of Registration No. 039-14366-00078.

| |
|---------------------------------------|
| 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 Notice-Only Change (NOC)

Source Description and Location

| | |
|------------------------------------|--|
| Source Name: | Stellite Coatings |
| Source Location: | 1201 Eisenhower Drive North Goshen, Indiana 46526 |
| County: | Elkhart |
| SIC Code: | 3369 |
| Registration No.: | 039-14366-00078 |
| Registration Issuance Date: | August 7, 2001 |
| Registration Revision No.: | 039-29603-00078 |
| Permit Reviewer: | Bruce Farrar |

On August 30, 2010, the Office of Air Quality (OAQ) received an application from the source relating to construction and operation of a Rod/Wire Casting Fume Hood, with particulate emissions controlled by baghouse DC6 and the addition of Baghouse DC9 to control particulate emissions from the Castable Rework Operation.

Existing Approvals

The source was issued Re-registration No. 039-14366-00078 on August 7, 2001. The source has since received the following approvals:

- (a) First Registration Revision No. 039-15682-00078, issued on February 3, 2003; and
- (b) First Registration Notice-Only Change No. 039-23709-00078, issued on October 24, 2006; and
- (c) Second Registration Notice-Only Change No. 039-25404-00078, issued on October 31, 2007.

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. |
| ¹ Attainment 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 PM2.5. | |

- (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. These rules became effective on 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 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.

Status of the Existing Source

The table below summarizes the potential to emit of the entire source, prior to the proposed revision, after consideration of all enforceable limits established in the effective permits:

| Process/ Emission Unit | Potential To Emit of the Entire Source Prior to Revision (tons/year) | | | | | | | | |
|---------------------------------------|--|--------------|--------------|-----------------|-----|-----|-----|--------------|--------------------------|
| | PM | PM10 | PM2.5 | SO ₂ | NOx | VOC | CO | Total HAPs | Worst Single HAP |
| Air melt atomization tower/DC1 | 1.08 | 0.11 | 0.11 | - | - | - | - | 9.4 | 3.2 (Nickel) |
| Fume Hood/DC2 | 0.32 | 0.03 | 0.03 | - | - | - | - | | |
| Air melt atomization tower/DC3 | 1.08 | 0.11 | 0.11 | - | - | - | - | | |
| Cobalt Classifying Operation/DC4 | 0.11 | 0.01 | 0.01 | - | - | - | - | | |
| Iron/Nickel Classifying Operation/DC5 | 2.4 | 0.24 | 0.24 | - | - | - | - | | |
| Castable rework Operation/DC6 | 0.54 | 0.05 | 0.05 | - | - | - | - | | |
| Welding Application/DC7 | 0.54 | 0.05 | 0.05 | | | | | | |
| Spray Booth A and B/DC8 | 14.4 | 14.4 | 14.4 | | | | | 9.34 | 1.86 (Nickel) |
| Total PTE of the Entire Source | 20.5 | 15.00 | 15.00 | - | - | - | - | 18.74 | 5.06 (Nickel) |
| Registration Levels | 25 | 25 | 25 | 25 | 25 | 25 | 100 | 25 | 10 |

| Process/ Emission Unit | Potential To Emit of the Entire Source Prior to Revision (tons/year) | | | | | | | | |
|---|--|------|-------|-----------------|-----------------|-----|----|------------|------------------|
| | PM | PM10 | PM2.5 | SO ₂ | NO _x | VOC | CO | Total HAPs | Worst Single HAP |
| negl. = negligible | | | | | | | | | |
| These emissions are based upon Registration Revision #039-15682-00078, issued February 3, 2003. | | | | | | | | | |

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by Stellite Coatings on August 30, 2010, relating to construction and operation of a Rod/Wire Casting Fume Hood. The Rod/Wire Casting Fume Hood is identical in capacity to the Fume Hood currently permitted. Baghouse DC6 will move from its current location at the Castable Rework Operation to the new Rod/Wire Casting Fume Hood to control particulate emissions. A new Baghouse, identified as DC9, will control particulate emissions for the Castable Rework Operation. Baghouse DC9 is identical to Baghouse DC6.

The following is a list of the new emission unit *and* pollution control device:

Rod/Wire Casting Fume Hood approved for construction in 2010, with a maximum process rate of less than 100 pounds per hour, controlled by Baghouse DC6.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – Registration Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-5.5-6. This table reflects the PTE before controls of the proposed revision.

| Process/ Emission Unit | PTE of Proposed Revision (tons/year) | | | | | | | | |
|---|--------------------------------------|-------------|-------------|-----------------|-----------------|-----|----|------------|------------------|
| | PM | PM10* | PM2.5 | SO ₂ | NO _x | VOC | CO | Total HAPs | Worst Single HAP |
| Rod/Wire Casting Fume Hood/DC6 | 0.32 | 0.03 | 0.03 | - | - | - | - | negl. | negl. |
| Total PTE of Proposed Revision | 0.32 | 0.03 | 0.03 | - | - | - | - | negl. | negl. |
| 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". | | | | | | | | | |

This Registration is being revised through a Notice-Only Change pursuant to 326 IAC 2-5.5-6(d)(10) and 326 IAC 2-5.5-6(d)(12), because the potential emissions of regulated criteria pollutants and hazardous air pollutants are less than the ranges specified in 326 IAC 2-5.5-6(d)(10) and 326 IAC 2-5.5-6(d)(12), respectively. The uncontrolled/unlimited potential to emit of the entire source will continue to be within the threshold levels specified in 326 IAC 2-5.5-1(b)(1). No new state rules are applicable to this source. There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) or National

Emission standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 20 and 40 CFR Part 61, 63) included in this notice-only change .

PTE of the Entire Source After Issuance of the Registration Revision

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units.

| Process/ Emission Unit | Potential To Emit of the Entire Source with the Revision (tons/year) | | | | | | | | |
|---|--|----------------------------------|----------------------------------|-----------------|-----|-----|-----|--------------|------------------|
| | PM | PM10* | PM2.5 | SO ₂ | NOx | VOC | CO | Total HAPs | Worst Single HAP |
| Air melt atomization tower/DC1 | 1.08 | 0.11 | 0.11 | - | - | - | - | 9.4 | 3.2 (Nickel) |
| Fume Hood/DC2 | 0.32 | 0.03 | 0.03 | - | - | - | - | | |
| Air melt atomization tower/DC3 | 1.08 | 0.11 | 0.11 | - | - | - | - | | |
| Cobalt Classifying Operation/DC4 | 0.11 | 0.01 | 0.01 | - | - | - | - | | |
| Iron/Nickel Classifying Operation/DC5 | 2.4 | 0.24 | 0.24 | - | - | - | - | | |
| Castable rework Operation/DC6 | 0.54 | 0.05 | 0.05 | - | - | - | - | | |
| Welding Application/DC7 | 0.54 | 0.05 | 0.05 | - | - | - | - | 9.34 | 1.86 (Nickel) |
| Spray Booth A and B/DC8 | 14.4 | 14.4 | 14.4 | - | - | - | - | | |
| Rod/Wire Casting Fume Hood/DC6 | 0.32 | 0.03 | 0.03 | - | - | - | - | negl. | negl. |
| Total PTE of Entire Source | 20.5 20.82 | 15.00 15.03 | 15.00 15.03 | - | - | - | - | 18.74 | 5.06 (Nickel) |
| 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". | | | | | | | | | |

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. (Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted).

| Process/ Emission Unit | Potential To Emit of the Entire Source After Issuance of Revision (tons/year) | | | | | | | | Total HAPs | Worst Single HAP |
|---|---|-------|-------|-----------------|-----------------|-----|-----|-------|------------------|---------------------|
| | PM | PM10* | PM2.5 | SO ₂ | NO _x | VOC | CO | | | |
| Air melt atomization tower/DC1 | 1.08 | 0.11 | 0.11 | - | - | - | - | 9.4 | 3.2 (Nickel) | |
| Fume Hood/DC2 | 0.32 | 0.03 | 0.03 | - | - | - | - | | | |
| Air melt atomization tower/DC3 | 1.08 | 0.11 | 0.11 | - | - | - | - | | | |
| Cobalt Classifying Operation/DC4 | 0.11 | 0.01 | 0.01 | - | - | - | - | | | |
| Iron/Nickel Classifying Operation/DC5 | 2.4 | 0.24 | 0.24 | - | - | - | - | | | |
| Castable rework Operation/DC9 | 0.54 | 0.05 | 0.05 | - | - | - | - | | | |
| Welding Application/DC7 | 0.54 | 0.05 | 0.05 | - | - | - | - | 9.34 | 1.86 (Nickel) | |
| Spray Booth A and B/DC8 | 14.4 | 14.4 | 14.4 | - | - | - | - | | | |
| Rod/Wire Casting Fume Hood/DC6 | 0.32 | 0.03 | 0.03 | - | - | - | - | negl. | negl. | |
| Total PTE of Entire Source | 20.82 | 15.03 | 15.03 | - | - | - | - | 18.74 | 5.06 (Nickel) | |
| 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". | | | | | | | | | | |

- (a) This revision will not change the registration status of the source, because the uncontrolled/unlimited potential to emit of PM, PM10 and PM2.5 from the entire source will still be within the ranges listed in 326 IAC 2-5.5-1(b)(1) and the PTE of all other regulated criteria pollutants will still be less than the ranges listed in 326 IAC 2-5.5-1(b)(1). Therefore, the source will still be subject to the provisions of 326 IAC 2-5.5 (Registrations).
- (b) This revision will not change the minor status of the source, because the uncontrolled/unlimited potential to emit of any single HAP will still be less than ten (10) tons per year and the PTE of a combination of HAPs will still be 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

The federal rules applicable to the existing emission units at this source will not change as a result of this revision.

The federal rule applicability for this revision is as follows:

New Source Performance Standards (NSPS)

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included for this proposed revision.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (b) 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 63.11169, Subpart HHHHHH (6H)), are not included for this notice only change, because the source uses the surface coating for quality control purposes, pursuant to 40 CFR 63.11180.
- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants for Area Source Standards for Nine Metal Fabrication and Finishing Source Categories (40 CFR 63, Subpart XXXXXX (6X)), are not included for this notice only change, because this source's SIC is not listed.
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed revision.

Compliance Assurance Monitoring (CAM)

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

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| State Rule Applicability Determination |
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The state rules applicable to the existing emission units at this source will not change as a result of this revision.

The following state rules are applicable to the proposed notice -only change:

- (a) 326 IAC 2-5.5 (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 proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new units is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.
- (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 not located in Lake, Porter, or LaPorte County, 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 forty percent (40%) 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.

Rod/Wire Casting Fume Hood

- (f) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2(e)(2), the particulate matter (PM) from the Rod/Wire Casting Fume Hood shall not exceed 0.551 pounds per hour when operating at a process weight rate of less than 100 pounds per hour.

Based on calculations, the baghouse DC6 is needed to comply with this limit.

- (g) There are no other 326 IAC 8 Rules that are applicable to the unit.

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 August 30, 2010.

The construction and operation of this proposed notice-only change shall be subject to the conditions of the attached proposed Registration Notice-Only Change No. 039-29603-00078. The staff recommends to the Commissioner that this Registration Notice Only Change approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Bruce Farrar 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) 234-5401 or toll free at 1-800-451-6027 extension 4-5401.
- (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.in.gov/idem

**Appendix A: Emissions Calculations
Summary**

Company Name: Stellite Coatings
Address City IN Zip: 1201 Eisenhower Drive North, Elkhart, IN 46526
Permit Number: R039-29603-00078
Reviewer: Bruce Farrar
Date: August 30, 2010

| | PM | PM10 | PM2.5 | SO ₂ | NO _x | VOC | CO | Total HAPs | Worst Single HAP |
|--|--------------|--------------|--------------|-----------------|-----------------|-----|----|--------------|------------------|
| Total PTE before revision ^{1 and 2} | 20.50 | 15.00 | 15.00 | - | - | - | - | 18.70 | 5.06 |
| | | | | | | | | | Nickel |
| Rod/Wire Casting Fume Hood/DC-6 | 0.32 | 0.03 | 0.03 | - | - | - | - | - | - |
| Totals After Revisions | 20.82 | 15.03 | 15.03 | - | - | - | - | 18.70 | |

1. PTE from Registration Revision #039-15682-00078, dated February 2, 2003.
2. Assume PM10 =PM2.5

All HAPs are metal HAPs.

**Appendix A: Process Particulate Emission:
Baghouses**

Company Name: Stellite Coatings
Address City IN Zip: 1201 Eisenhower Drive North, Elkhart, IN 46526
Permit Number: R039-29603-00078
Reviewer: Bruce Farrar
Date: August 30, 2010

| Potential Emissions (tons/year) | | | | |
|--|----------------------|------------------------|-----------------------|--------------------------|
| Bagouse | PM Emission (lbs/hr) | PM10 Emission (lbs/hr) | PM Emission (tons/yr) | PM10 Emissions (tons/yr) |
| Rod/Wire Casting Fume Hood/DC6 | 0.073 | 0.007 | 0.32 | 0.032 |

Total Emissions Based on Rated Capacity at 8,760 Hours/Year

Methodology:

PM tons/yr = PM lbs/hr * 8760 hrs/yr * 1 ton/2000lbs

PM and PM 10 emissions base on PM collected from Baghouse DC2 (Fume Hood) Registration #039-14366-00078, dated August 7, 2001.

PM emissions occur during the pouring of molten metal from the induction furnace to the Rod/Wire extruder.

The fume hood is used to draw the fumes away to the baghouse. There are no additional emissions from the extrusion process.



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: Scott Dunnuck
Maintenance Foreman
Stellite Coatings
1201 Eisenhower Dr. North
Goshen IN 46526

DATE: Dec. 29, 2010

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

SUBJECT: Final Decision
Registration Notice Only Change
039-29603-00078

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:
Lauren Pecina Bruce Carter Associates
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 | BMILLER 12/29/2010 Stellite Coatings 039-29603-00078 (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 Dunnuck Maintenance Foreman Stellite Coatings 1201 Eisenhower Drive North Goshen IN 46526 (Source CAATS) <i>Via Confirm Delivery</i> | | | | | | | | | | |
| 2 | | Elkhart County Health Department Elkhart County Health Department 608 Oakland Avenue Elkhart IN 46516 (Health Department) | | | | | | | | | | |
| 3 | | Goshen City Council and Mayors Office 202 South 5th Street Suite 1 Goshen IN 46528 (Local Official) | | | | | | | | | | |
| 4 | | Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party) | | | | | | | | | | |
| 5 | | Bristol Town Council and Town Manager P.O. Box 122 Bristol IN 46507 (Local Official) | | | | | | | | | | |
| 6 | | Elkhart County Board of Commissioners 117 North Second St. Goshen IN 46526 (Local Official) | | | | | | | | | | |
| 7 | | Lauren Pecina Bruce Carter Associates 616 S 4th Street Elkhart IN 46516 (Consultant) | | | | | | | | | | |
| 8 | | Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party) | | | | | | | | | | |
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| Total number of pieces Listed by Sender | Total number of Pieces Received at Post Office | Postmaster, Per (Name of Receiving employee) | The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels. |
|---|--|--|--|