



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

To: Interested Parties

Date: April 23, 2015

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

Source Name: C & M Conveyer, Inc.

Permit Level: Registration Revision

Permit Number: 093-35657-00029

Source Location: 4598 State Road 37
Mitchell, Indiana

Type of Action Taken: Revisions to permit requirements

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 matter referenced above.

The final decision is available on the IDEM website at: <http://www.in.gov/apps/idem/caats/>
To view the document, select Search option 3, then enter permit 35657.

If you would like to request a paper copy of the permit document, please contact IDEM's central file room:

Indiana Government Center North, Room 1201
100 North Senate Avenue, MC 50-07
Indianapolis, IN 46204
Phone: 1-800-451-6027 (ext. 4-0965)
Fax (317) 232-8659

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).

(continues on next page)

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.



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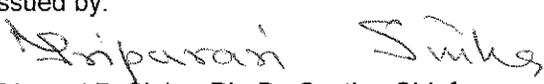
**REGISTRATION REVISION
OFFICE OF AIR QUALITY**

**C&M Conveyor, Inc.
4598 State Road 37
Mitchell, Indiana 47446**

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. R093-16060-00029	
Original signed by: Paul Dubenetzky, Chief Permits Branch Office of Air Quality	Issuance Date: September 17, 2002

Registration Notice-Only Change No.093-26129-00029, issued on March 27, 2008

Registration Revision No. 093-35657-00029	
Issued by:  Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: April 23, 2015

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 automated conveyor manufacturing source.

Source Address:	4598 State Road 37, Mitchell, Indiana 47446
General Source Phone Number:	(812) 849-5647
SIC Code:	3535 (Conveyors and Conveying Equipment)
County Location:	Lawrence 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) surface coating booth, identified as Large Paint Room, approved in 2015 for construction, using two (2) low pressure air atomized (cup guns) spray applicators or one (1) electrostatic air atomized spray applicator, with a maximum line production rate of 4.0 units per hour and 0.17 gallons of coating per unit, using dry filters to control particulate emissions and exhausting outdoors. Only one spray applicator can be used at a time.
- (b) One (1) surface coating application cleaning operation, identified as Cleaner, approved in 2015 for construction in 2015, with a maximum usage capacity of 196 gallons of hexane per year and exhausting outdoors.
- (c) One (1) coating thinner operation, identified as Thinner, approved in 2015 for construction in 2015, with a maximum usage capacity of 1,986 gallons of exempt solvent (acetone) per year and exhausting outdoors.
- (d) Four (4) metal saws, identified as Metal Sawing, approved in 2015 for construction in 2015, with a maximum metal loss rate of 0.05 pounds (lbs) of metal per cut, and a maximum cutting capacity of 50,112 cuts per year, using no control, and exhausting indoors.
- (e) One (1) wood saw, identified as Wood Sawing approved in 2015 for construction in 2015,, with a maximum capacity of 0.05 pounds (lbs) of wood per cut, and a maximum cutting capacity of 8,393 cuts per year, using no controls, and exhausting indoors.
- (f) One (1) MIG welding operation, identified as MIG Welding, consisting of sixteen (16) welding stations, approved in 2015 for construction in 2015,, with a maximum capacity of 59,920 pounds (lbs) of flux cored electrode per year or 42,792 pounds (lbs) of carbon steel welding wire per year, using no controls and exhausting indoors.
- (g) Five (5) natural gas-fired heaters, identified as Unit Heater #1 through Unit Heater #5, approved in 2015 for construction in 2015,, each with a maximum heat input capacity of 0.2 MMBtu/hr, using no control, and exhausting outdoors.
- (h) Three (3) natural gas-fired heaters, identified as AHU #1 through AHU #3, approved in 2015 for construction in 2015, with maximum heat input capacities of 0.183680

MMBtu/hr, 0.093 MMBtu/hr, and 0.4 MMBtu/hr, respectively, using no control, and exhausting outdoors.

- (i) One (1) natural gas-fired heater, identified as Office Heating Unit, approved in 2015 for construction in 2015, with a maximum heat input capacity of 0.12 MMBtu/hr, using no control, and exhausting outdoors.
- (j) One (1) natural gas-fired heater, identified as Air Makeup Unit, approved in 2015 for construction in 2015, with a maximum heat input capacity of 2.419 MMBtu/hr, using no control, and exhausting outdoors.
- (k) Paved access road and parking lot.

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 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. R093-16060-00029 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).

Corrective Actions and Response Steps

C.3 Response to Excursions or Exceedances [326 IAC 2-5.1-3(e)(2)]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this registration:

- (a) The Registrant shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system);
or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Registrant has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;

- (2) review of operation and maintenance procedures and records; and/or
- (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the registration.
- (e) The Registrant shall record the reasonable response steps taken.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)]

C.4 General Record Keeping Requirements [326 IAC 2-5.1-3(e)(2)]

- (a) Records of all required monitoring data, reports and support information required by this registration 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 Registrant, the Registrant shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this registration, for all record keeping requirements not already legally required, the Registrant shall be allowed up to ninety (90) days from the date of registration issuance or the date of initial start-up, whichever is later, to begin such record keeping.

SECTION D.1

OPERATION CONDITIONS

Emission Unit Description:

- (a) One (1) surface coating booth, identified as Large Paint Room, approved in 2015 for construction, using two (2) low pressure air atomized (cup guns) spray applicators or one (1) electrostatic air atomized spray applicator, with a maximum line production rate of 4.0 units per hour and 0.17 gallons of coating per unit, using dry filters to control particulate emissions and exhausting outdoors. Only one spray applicator can be used at a time.

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

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

D.1.1 Volatile Organic Compound (VOC) Content Limitations [326 IAC 8-2-9]

- (a) Pursuant to 326 IAC 8-2-9, the Permittee shall not allow the discharge into the atmosphere VOC in excess of the following emission limitations:

Type of Coating	Pounds of VOC per gallon of coating, excluding water, as delivered to the applicator
Clear Coatings	4.3
Air Dried or forced warm air drive at temperatures up to 90 deg Centigrade	3.5
Extreme Performance Coatings	3.5
All other coatings	3.0

- (b) Pursuant to 326 IAC 8-2-9(e), if more than one of the above emission limits applies to a specific coating, then the least stringent limitation applies.
- (c) Pursuant to 326 IAC 8-2-9(f), work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not limited to, the following:
 - (1) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.
 - (2) Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.
 - (3) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.
 - (4) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.
 - (5) Minimize VOC emissions from the cleaning application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

D.1.2 Particulate [326 IAC 6-3-2(d)]

- (a) Particulate from surface coating booth shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.
- (b) If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (c) If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

D.1.3 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.1.4 Volatile Organic Compounds

Compliance with the VOC content and usage limitations contained in Condition D.1.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3)(A) using formulation data supplied by the coating manufacturer. However, 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 and Reporting Requirements [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

D.1.5 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (2) below. Records maintained for (1) through (2) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.1.1. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
 - (1) The VOC content of each coating material and solvent used.
 - (2) The amount of coating material and solvent less water used on a monthly 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) To document compliance status with Condition D.1.2(b), the Permittee shall maintain a record of any actions taken if overspray is visibly detected.

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

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

**REGISTRATION
ANNUAL NOTIFICATION**

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

Company Name:	C&M Conveyor, Inc.
Address:	4598 State Road 37
City:	Mitchell, Indiana 47446
Phone Number:	(812) 849-5647
Registration No.:	R093-16060-00029

I hereby certify that C&M Conveyor, Inc. is:

- still in operation.
- no longer in operation.
- in compliance with the requirements of Registration No. R093-16060-00029.
- not in compliance with the requirements of Registration No. R093-16060-00029.

I hereby certify that C&M Conveyor, Inc. is:

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 Revision

Source Description and Location
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Source Name:	C&M Conveyor, Inc.
Source Location:	4598 State Road 37, Mitchell, Indiana 47446
County:	Lawrence
SIC Code:	3535 (Conveyors and Conveying Equipment)
Registration No.:	093-16060-00029
Registration Issuance Date:	September 17, 2002
Registration Revision No.:	093-35657-00029
Permit Reviewer:	Monica Dick

On March 31, 2015, the Office of Air Quality (OAQ) received an application from C&M Conveyor, Inc. related to a modification to an existing automated conveyor manufacturing source.

Existing Approvals

The source was issued Registration No. 093-16060-00029 on September 17, 2002. The source has since received the following approvals:

- (a) Notice-Only Change No. 093-26129-00029, issued on March 27, 2008;

County Attainment Status

The source is located in Lawrence County:

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard. ¹
PM _{2.5}	Unclassifiable or attainment effective April 5, 2005, for the annual PM _{2.5} standard.
PM _{2.5}	Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM _{2.5} standard.
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.	

- (a) **Ozone Standards**
Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Lawrence County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
Lawrence County has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5},

SO₂, and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (c) **Other Criteria Pollutants**
 Lawrence County has been classified as attainment or unclassifiable in Indiana for SO₂, CO, PM₁₀, NO₂, and Pb. 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, hazardous air pollutants, and greenhouse gases 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	NO _x	VOC	CO	Total HAPs	Worst Single HAP
one (1) surface coating booth	1.39	1.39	1.39	-	-	14.46	-	14.16	8.32 Xylene
seven (7) natural gas fired comfort space heaters	0.01	0.06	0.06	0.005	0.75	0.04	0.63	0.01	0.01 Hexane
one (1) natural gas fired air curtain	0.01	0.03	0.03	0.003	0.43	0.02	0.36	0.01	0.01 Hexane
Total PTE of Entire Source	1.41	1.48	1.48	0.01	1.18	14.52	0.99	14.18	8.32 Xylene
Exemptions Levels	<5	<5	<5	<10	<10	<10	<25	<25	<10
Registration Levels	<25	<25	<25	<25	<25	<25	<100	<25	<10
negl. = negligible									
*These emissions are based upon R093-16060-00029, TSD, Appendix A									

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by C&M Conveyor, Inc. on March 31, 2015, relating to the addition of emission units.

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

- (a) One (1) surface coating booth, identified as Large Paint Room, approved in 2015 for construction, using two (2) low pressure air atomized (cup guns) spray applicators or one (1) electrostatic air atomized spray applicator, with a maximum line production rate of 4.0 units per hour and 0.17 gallons of coating per unit, using dry filters to control particulate emissions and exhausting outdoors. Only one spray applicator can be used at a time.
- (b) One (1) surface coating application cleaning operation, identified as Cleaner, approved in 2015 for construction in 2015, with a maximum usage capacity of 196 gallons of hexane per year and exhausting outdoors.

- (c) One (1) coating thinner operation, identified as Thinner, approved in 2015 for construction in 2015, with a maximum usage capacity of 1,986 gallons of exempt solvent (acetone) per year and exhausting outdoors.
- (d) Four (4) metal saws, identified as Metal Sawing, approved in 2015 for construction in 2015, with a maximum metal loss rate of 0.05 pounds (lbs) of metal per cut, and a maximum cutting capacity of 50,112 cuts per year, using no control, and exhausting indoors.
- (e) One (1) wood saw, identified as Wood Sawing approved in 2015 for construction in 2015,, with a maximum capacity of 0.05 pounds (lbs) of wood per cut, and a maximum cutting capacity of 8,393 cuts per year, using no controls, and exhausting indoors.
- (f) One (1) MIG welding operation, identified as MIG Welding, consisting of sixteen (16) welding stations, approved in 2015 for construction in 2015,, with a maximum capacity of 59,920 pounds (lbs) of flux cored electrode per year or 42,792 pounds (lbs) of carbon steel welding wire per year, using no controls and exhausting indoors.
- (g) Five (5) natural gas-fired heaters, identified as Unit Heater #1 through Unit Heater #5, approved in 2015 for construction in 2015,, each with a maximum heat input capacity of 0.2 MMBtu/hr, using no control, and exhausting outdoors.
- (h) Three (3) natural gas-fired heaters, identified as AHU #1 through AHU #3, approved in 2015 for construction in 2015, with maximum heat input capacities of 0.183680 MMBtu/hr, 0.093 MMBtu/hr, and 0.4 MMBtu/hr, respectively, using no control, and exhausting outdoors.
- (i) One (1) natural gas-fired heater, identified as Office Heating Unit, approved in 2015 for construction in 2015, with a maximum heat input capacity of 0.12 MMBtu/hr, using no control, and exhausting outdoors.
- (j) One (1) natural gas-fired heater, identified as Air Makeup Unit, approved in 2015 for construction in 2015, with a maximum heat input capacity of 2.419 MMBtu/hr, using no control, and exhausting outdoors.
- (k) Paved access road and parking lot.

Emission Units and Pollution Control Equipment Removed From the Source

The source has removed the following emission units:

- (a) One (1) surface coating booth, identified as 'Front Paint Room' constructed in 1989, using an electrostatic air atomized spray gun, with a maximum production rate of 1826 units per hour, using dry filters to control emissions and exhausting through stack 1.
- (b) Seven (7) natural gas fired comfort space heaters, with a combined heat input rate of 1.75 million British thermal units per hour (MMBtu/hr) used for heating the building.
- (c) One (1) natural gas fired air curtain, rated as less than 1 million British thermal units per hour (MMBtu/hr).

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 revision 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
Surface Coating Booth	16.62	16.62	16.62	-	-	14.00	-	10.70	8.52 Xylene
Surface Coating Application Cleaning Operation	-	-	-	-	-	-	-	0.55	0.55 Hexane
Four (4) Metal Saws	5.33	5.33	5.33	-	-	-	-	-	-
One (1) Wood Saw	0.19	0.19	0.19	-	-	-	-	-	-
Sixteen (16) Welding Stations	0.51	0.51	0.51	-	-	-	-	0.01	0.01 Manganese
Natural gas-fired heaters: Unit Heater #1 through Unit Heater #5, AHU #1 through AHU #3, One (1) Office Heating Unit, and One (1) natural gas-fired heater, identified as Air Makeup Unit	0.03	0.14	0.14	0.01	1.81	0.10	1.52	0.03	0.03 Hexane
Total PTE of Proposed Revision	22.69	22.79	22.79	0.01	1.81	14.10	1.52	11.30	8.52 Xylene
negl. = negligible									

This Registration is being revised through a Registration Revision pursuant to 326 IAC 2-5.5-6(g), because the revision involves the construction of emission units with total potential to emit (PTE) of either PM, PM10, PM2.5, or VOC greater than the thresholds in 326 IAC 2-1.1-3(e)(1) (Exemptions).

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	NO _x	VOC	CO	Total HAPs	Worst Single HAP
one (1) surface coating booth	1.39	1.39	1.39	-	-	14.46	-	14.16	8.32 Xylene
seven (7) natural gas-fired comfort space heaters	0.01	0.06	0.06	0.005	0.75	0.04	0.63	0.01	0.01 Hexane
one (1) natural gas fired air curtain	0.01	0.03	0.03	0.003	0.43	0.02	0.36	0.01	0.01 Hexane
Surface Coating Booth	16.62	16.62	16.62	-	-	14.00	-	10.70	8.52 Xylene
Surface Coating Application Cleaning Operation	-	-	-	-	-	-	-	-	0.55 Hexane
Four (4) Metal Saws	5.33	5.33	5.33	-	-	-	-	-	-
One (1) Wood Saw	0.19	0.19	0.19	-	-	-	-	-	-
Sixteen (16) Welding Stations	0.51	0.51	0.51	-	-	-	-	0.01	0.01 Manganese
Natural gas-fired heaters: Unit Heater #1 through Unit Heater #5, AHU #1 through AHU #3, One (1) Office Heating Unit, and One (1) natural gas-fired heater, identified as Air Makeup Unit	0.03	0.14	0.14	0.01	1.81	0.10	1.52	0.03	0.03 Hexane
Paved access road and parking lot	0.02	0.004	0.001	-	-	-	-	-	-
Total PTE of Entire Source	1.44 22.71	1.48 22.80	1.48 22.79	0.01	1.81	14.52 14.10	0.99 1.52	14.18 11.30	8.32 8.52 Xylene
Exemptions Levels	<5	<5	<5	<10	<10	<10	<25	<25	<10
Registration Levels	<25	<25	<25	<25	<25	<25	<100	<25	<10
negl. = negligible *Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each 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 with the Revision (tons/year)								
	PM	PM10*	PM2.5*	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Surface Coating Booth	16.62	16.62	16.62	-	-	14.00	-	10.70	8.52 Xylene
Surface Coating Application Cleaning Operation	-	-	-	-	-	-	-	-	0.55 Hexane
Four (4) Metal Saws	5.33	5.33	5.33	-	-	-	-	-	-
One (1) Wood Saw	0.19	0.19	0.19	-	-	-	-	-	-
Sixteen (16) Welding Stations	0.51	0.51	0.51	-	-	-	-	0.01	0.01 Manganese
Natural gas-fired heaters: Unit Heater #1 through Unit Heater #5, AHU #1 through AHU #3, One (1) Office Heating Unit, and One (1) natural gas-fired heater, identified as Air Makeup Unit	0.03	0.14	0.14	0.01	1.81	0.10	1.52	0.03	0.03 Hexane
Paved access road and parking lot	0.02	0.004	0.001	-	-	-	-	-	-
Total PTE of Entire Source	22.71	22.80	22.79	0.01	1.81	14.10	1.52	11.30	8.52 Xylene
Exemptions Levels	<5	<5	<5	<10	<10	<10	<25	<25	<10
Registration Levels	<25	<25	<25	<25	<25	<25	<100	<25	<10
negl. = negligible *Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each 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, PM2.5, or VOC 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 rule applicability for this revision is as follows:

New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60.40c, Subpart Dc, are not included in the registration, since the heaters are not steam generators. Therefore 40 CFR Part 60, Subpart Dc does not apply.
- (b) There are no other 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)

- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63.3881, Subpart MMMM (326 IAC 20-80), are not included in the registration, since this source is not a major source of HAPs.
- (d) The requirements of the NESHAP for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH (40 CFR Part 63.11169 - 63.11180), are not included in the registration, since this source is not a motor vehicle or mobile equipment surface coating operation.
- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) Area Source Standards for Nine Metal Fabrication and Finishing Source Categories, 40 CFR 63.11514, Subpart XXXXXX, are not included in the registration for the surface coating and welding operations, since the source has an SIC Code and NAICS Code that is not associated with the source categories regulated pursuant to 40 CFR 63.11514 and 40 CFR Part 63, Subpart XXXXXX, Table 1. Therefore the source is not subject to and 40 CFR Part 63, Subpart XXXXXX.
- (g) There are no other 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)

- (h) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the registration, 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.

State Rule Applicability Determination

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 revision:

- (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 registration:
 - (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.
- (f) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.
- (g) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

Surface Coating, Coating Thinner Operation, and Surface Coating Cleaning

326 IAC 1-2-90 "Volatile organic compound" or "VOC" defined

As set forth in 40 CFR 51.100(s), acetone and hexane have been determined to have negligible photochemical reactivity and are not considered VOCs. Therefore, acetone and hexane are not subject to the 326 IAC 8 Rules.

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

Pursuant to 6-3-1(a) and (b)(15) manufacturing processes located anywhere in the state are subject to 326 IAC 6-3, since the surface coating uses (5) gallons per day or more of coating, the surface coating is subject to 326 IAC 6-3-2(d).

Pursuant to 326 IAC 6-3-2(d), the Permittee shall comply with the following:

- (a) Particulate from surface coating booth shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.
- (b) If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - (1) Shut down the coating process until the overspray is removed.
 - (2) Shut down the coating process until the overspray is removed.

- (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (c) If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

The surface coating is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each new unit is less than twenty-five (25) tons per year.

326 IAC 8-2-9 Volatile Organic Compound (VOC) Content Limitations

Pursuant to 326 IAC 8-2-1(4) the facility will commence construction after July 1, 1990 and is of the type described in 326 IAC 8-2-9(a)(1)(D) with actual emissions are greater than 15 pounds of VOC per day before controls, since the facility applies clear coatings, coatings that are air dried or forced warm air dried at temperatures up to 194 degrees Fahrenheit, extreme performance coatings and other coatings 326 IAC 8-2-9(c), (e), and (f) apply.

There are no other 326 IAC 8 Rules that are applicable to the unit.

Metal and Wood Sawing

326 IAC 6-3-1 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(b)(14) and 326 IAC 6-3-1.5(2), since any single saw emits particulate matter less than five hundred fifty-one thousandths (0.551) pound per hour, the metal and wood saws are exempt from 326 IAC 6-3.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

The metal and wood saws are not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each new unit is less than twenty-five (25) tons per year.

Welding

326 IAC 6-3-1 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(b)(9), welding is exempt from 326 IAC 6-3, provided that less than six hundred twenty-five (625) pounds of rod or wire is consumed per day. The welding operations use less than 625 pounds per day of wire. Therefore, the requirements of 326 IAC 6-3-2 (Particulate emission limitations, work practices, and control technologies) shall not apply to the welding operations.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

The welding is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each new unit is less than twenty-five (25) tons per year.

Heaters

326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating)

The space heaters are not subject to the requirements of 326 IAC 6-2, since these units are not sources of indirect heating.

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

Pursuant to 326 IAC 1-2-59, the requirements of 326 IAC 6-3-2 are not applicable to the natural gas space heaters, since liquid and gaseous fuels and combustion air are not considered as part

of the process weight.

326 IAC 7-1.1-1 Sulfur Dioxide Rule Applicability

Pursuant to 326 IAC 7.1.1-1 all emission units with a potential to emit 25 tons per year or 10 pounds per hour of sulfur dioxide shall comply with the sulfur dioxide emission limitations. All of the heaters are fired by natural gas only and emit less than 25 tons per year or 10 pounds per hour of sulfur dioxide. Therefore, the limitations in 326 IAC 7-1.1-2, compliance test methods in 326 IAC 7-2 do not apply.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

The heaters are not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each new unit is less than twenty-five (25) tons per year.

326 IAC 9 (Carbon Monoxide Emissions Rules)

The heaters are not subject to 326 IAC 9. This rule applies to Petroleum Refining emissions, Ferrous Metal Smelters and Solid Waste incineration and burning equipment, none of which are located at this source.

326 IAC 10 (Nitrogen Oxides Control in Clark and Floyd Counties)

The heaters are not subject to the requirements of 326 IAC 10, since they are not located in Clark or Floyd County.

Proposed Changes

The following changes listed below are due to the proposed revision. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

Change 1 Section A.2 has been revised to include the new emission units.

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) surface coating booth, identified as 'Front Paint Room' constructed in 1989, using an electrostatic air atomized spray gun, with a maximum production rate of 1826 units per hour, using dry filters to control emissions and exhausting through stack 1.~~
- ~~(b) Seven (7) natural gas fired comfort space heaters, with a combined heat input rate of 1.75 million British thermal units per hour (MMBtu/hr) used for heating the building.~~
- ~~(c) One (1) natural gas fired air curtain, rated as less than 1 million British thermal units per hour (MMBtu/hr).~~
- (a) One (1) surface coating booth, identified as Large Paint Room, approved for construction in 2015, using two (2) low pressure air atomized (cup guns) spray applicators or one (1) electrostatic air atomized spray applicator, with a maximum line production rate of 4.0 units per hour and 0.17 gallons of coating per unit, using dry filters to control particulate emissions and exhausting outdoors. Only one spray applicator can be used at a time.**
- (b) One (1) surface coating application cleaning operation, identified as Cleaner, approved for construction in 2015, with a maximum usage capacity of 196 gallons of hexane per year and exhausting outdoors.**

- (c) One (1) coating thinner operation, identified as Thinner, approved for construction in 2015, with a maximum usage capacity of 1,986 gallons of exempt solvent (acetone) per year and exhausting outdoors.
- (d) Four (4) metal saws, identified as Metal Sawing, approved for construction in 2015, with a maximum metal loss rate of 0.05 pounds (lbs) of metal per cut, and a maximum cutting capacity of 50,112 cuts per year, using no control, and exhausting indoors.
- (e) One (1) wood saw, identified as Wood Sawing, approved for construction in 2015, with a maximum capacity of 0.05 pounds (lbs) of wood per cut, and a maximum cutting capacity of 8,393 cuts per year, using no controls, and exhausting indoors.
- (f) One (1) MIG welding operation, identified as MIG Welding, consisting of sixteen (16) welding stations, approved for construction in 2015, with a maximum capacity of 59,920 pounds (lbs) of flux cored electrode per year or 42,792 pounds (lbs) of carbon steel welding wire per year, using no controls and exhausting indoors.
- (g) Five (5) natural gas-fired heaters, identified as Unit Heater #1 through Unit Heater #5, approved for construction in 2015, each with a maximum heat input capacity of 0.2 MMBtu/hr, using no control, and exhausting outdoors.
- (h) Three (3) natural gas-fired heaters, identified as AHU #1 through AHU #3, approved for construction in 2015, with maximum heat input capacities of 0.183680 MMBtu/hr, 0.093 MMBtu/hr, and 0.4 MMBtu/hr, respectively, using no control, and exhausting outdoors.
- (i) One (1) natural gas-fired heater, identified as Office Heating Unit, approved for construction in 2015, with a maximum heat input capacity of 0.12 MMBtu/hr, using no control, and exhausting outdoors.
- (j) One (1) natural gas-fired heater, identified as Air Makeup Unit, approved for construction in 2015, with a maximum heat input capacity of 2.419 MMBtu/hr, using no control, and exhausting outdoors.
- (k) Paved access road and parking lot.

Change 2: Section D.1 has been added to include the new surface coating and applicable requirements.

SECTION D.1

OPERATION CONDITIONS

Emission Unit Description:

- (a) One (1) surface coating booth, identified as Large Paint Room, approved for construction in 2015, using two (2) low pressure air atomized (cup guns) spray applicators or one (1) electrostatic air atomized spray applicator, with a maximum line production rate of 4.0 units per hour and 0.17 gallons of coating per unit, using dry filters to control particulate emissions and exhausting outdoors. Only one spray applicator can be used at a time.

(The information describing the process contained in this emissions unit description box is

descriptive information and does not constitute enforceable conditions.)

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

D.1.1 Volatile Organic Compound (VOC) Content Limitations [326 IAC 8-2-9]

- (a) Pursuant to 326 IAC 8-2-9, the Permittee shall not allow the discharge into the atmosphere VOC in excess of the following emission limitations:

Type of Coating	Pounds of VOC per gallon of coating, excluding water, as delivered to the applicator
Clear Coatings	4.3
Air Dried or forced warm air drive at temperatures up to 90 deg Centigrade	3.5
Extreme Performance Coatings	3.5
All other coatings	3.0

- (b) Pursuant to 326 IAC 8-2-9(e), if more than one of the above emission limits applies to a specific coating, then the least stringent limitation applies.
- (c) Pursuant to 326 IAC 8-2-9(f), work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not limited to, the following:
- (1) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.
 - (2) Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.
 - (3) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.
 - (4) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one (1) location to another in closed containers or pipes.
 - (5) Minimize VOC emissions from the cleaning application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

D.1.2 Particulate [326 IAC 6-3-2(d)]

- (a) Particulate from surface coating booth shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.
- (b) If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:

- (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (c) If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

D.1.3 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.1.4 Volatile Organic Compounds

Compliance with the VOC content and usage limitations contained in Condition D.1.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3)(A) using formulation data supplied by the coating manufacturer. However, 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 and Reporting Requirements [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]

D.1.5 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (2) below. Records maintained for (1) through (2) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.1.1. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) The VOC content of each coating material and solvent used.
 - (2) The amount of coating material and solvent less water used on a monthly 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) To document compliance status with Condition D.1.2(b), the Permittee shall maintain a record of any actions taken if overspray is visibly detected.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Upon further review, IDEM, OAQ has decided to make the following changes to the registration. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

Change 1 The particulate limitations for the surface coating is included in the Section D and therefore deleted from Section C.

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.2 Particulate Emission Limitations [326 IAC 6-3-2]~~

- ~~(a) Particulate from the surface coating processes shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.~~
- ~~(b) If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - ~~(1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.~~
 - ~~(2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.~~~~
- ~~(c) If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for a period of five (5) years.~~

Change 2 The entire source is subject to fugitive emission limitations. Therefore Condition C.2 has been added to the registration.

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).

Change 3 Pursuant to 326 IAC 6-3-2(d) visible overspray detection is required. Therefore the following source operation conditions were added as follows:

Corrective Actions and Response Steps

C.3 Response to Excursions or Exceedances [326 IAC 2-5.1-3(e)(2)]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this registration:

- (a) **The Registrant shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.**
- (b) **The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:**
 - (1) **initial inspection and evaluation;**
 - (2) **recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or**
 - (3) **any necessary follow-up actions to return operation to normal or usual manner of operation.**
- (c) **A determination of whether the Registrant has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:**
 - (1) **monitoring results;**
 - (2) **review of operation and maintenance procedures and records; and/or**
 - (3) **inspection of the control device, associated capture system, and the process.**
- (d) **Failure to take reasonable response steps shall be considered a deviation from the registration.**
- (e) **The Registrant shall record the reasonable response steps taken.**

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)]

C.4 General Record Keeping Requirements [326 IAC 2-5.1-3(e)(2)]

- (a) **Records of all required monitoring data, reports and support information required by this registration 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 Registrant, the Registrant shall furnish the records to the Commissioner within a reasonable time.**
- (b) **Unless otherwise specified in this registration, for all record keeping requirements not already legally required, the Registrant shall be allowed up to ninety (90) days from the date of registration issuance or the date of initial start-up, whichever is later, to begin such record keeping.**

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 March 31, 2015.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed Registration Revision No. 093-35657-00029. The staff recommends to the Commissioner that this Registration Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed registration can be directed to Monica Dick 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) 234-5372 or toll free at 1-800-451-6027 extension 4-5372.
- (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 Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

Summary of Facility Emissions

Company Name: C & M Conveyor, Inc.
 Address City IN Zip: 4598 State Road 37, Mitchell, IN 47446
 Registration: R093-16060-00029
 Revision Number: 093-35657-00029
 Reviewer: Monica Dick

Uncontrolled Potential Emissions (tons/year)										
Emissions Units	Pollutant									
	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	VOC	CO	total HAPs	worst case single HAP	
Surface coating	16.62	16.62	16.62	-	-	14.00	-	10.70	8.52	Xylene
									0.05	Methanol
									1.97	Ethylbenzene
									0.16	Cobalt
									0.00	Toluene
Cleaner (Hexane)	-	-	-	-	-	-	-	0.55	0.55	Hexane
MIG Welders	0.51	0.51	0.51	-	-	-	-	0.01	0.01	Manganese
Metal Saws	5.33	5.33	5.33	-	-	-	-	-	-	N/A
Wood Saw	0.19	0.19	0.19	-	-	-	-	-	-	N/A
Heaters	0.03	0.14	0.14	0.01	1.81	0.10	1.52	0.03	0.03	Hexane
Paved Road and Lot	0.02	0.004	0.001	-	-	-	-	-	-	-
Total:	22.71	22.80	22.79	0.01	1.81	14.10	1.52	11.30	8.52	Xylene

VOC and Particulate Emissions From Surface Coating Operations

Company Name: C & M Conveyor, Inc.
Address City IN Zip: 4598 State Road 37, Mitchell, IN 47446
Registration: R093-16060-00029
Revision Number: 093-35657-00029
Reviewer: Monica Dick

Material	Density (Lb/Gal)	Weight % Volatile (Organics)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating (lb/gal)	Potential VOC pounds per hour (lb/hr)	Potential VOC pounds per day (lb/day)	Potential VOC (tons/yr)*	Particulate Potential (ton/yr)*	Transfer Efficiency
LE-828 Fast Dry Low VOC Neutral Base	8.81	27.24%	0.17	4.0	2.40	1.63	39.17	7.15	12.41	35%
LE-291 Acrylic Enamel Neutral Base	7.17	48.81%	0.17	4.0	3.50	2.38	57.12	10.42	7.10	35%
Speedenamel 4318 Q.D. Gloss Enamel - White Tint Base (00407178 GLS WTB 4318-0700)	8.93	39.70%	0.17	4.0	3.55	2.41	57.86	10.56	10.42	35%
Spectratron White Base Alkyd Enamel QT110HC	7.96	56.84%	0.17	4.0	4.52	3.08	73.84	13.48	6.65	35%
Spectratron White Base Alkyd Enamel QT110HW/01	9.43	46.66%	0.17	4.0	4.40	2.99	71.81	13.11	9.74	35%
Spectratron Bright Yellow Alkyd Enamel QT110YL255	8.35	56.30%	0.17	4.0	4.70	3.20	76.72	14.00	7.06	35%
SPDENAMEL GLS NTB 4318-0900	7.69	50.70%	0.17	4.0	3.90	2.65	63.63	11.61	7.34	35%
PSX 700 Pearl Gray Resin (PX70023/01)	11.18	0.19%	0.17	4.0	0.02	0.01	0.35	0.06	16.62	50%
DGUARD ALK FLA BLACK 4300-9990	9.39	36.83%	0.17	4.0	3.46	2.35	56.44	10.30	11.48	35%
Total Potential to Emit						3.20	76.72	14.00	16.62	

* Based on worst case coating. Source can only use one coating at a time and one spray applicator at a time.

METHODOLOGY:

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Volatile (Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

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

Total Worst Case value= Worst Coating + Sum of all solvents used

HAP Emission Calculations From Surface Coating Operations

Company Name: C & M Conveyor, Inc.
Address City IN Zip: 4598 State Road 37, Mitchell, IN 47446
Registration: R093-16060-00029
Revision Number: 093-35657-00029
Reviewer: Monica Dick

Material	Density	Gallons of Material	Maximum	Weight %	Weight %	Weight %	Weight %	Weight %	Emission	Emission	Ethylbenzene	Emission	Emission
	(Lb/Gal)	(gal/unit)	(unit/hour)	Xylene	Methanol	Ethylbenzene	Cobalt Compound	Toluene	(ton/yr)*	(ton/yr)*	(ton/yr)*	(ton/yr)*	(ton/yr)*
LE-828 Fast Dry Low VOC Neutral Base	8.81	0.17	4.0	--	--	--	--	--	--	--	--	--	--
LE-291 Acrylic Enamel Neutral Base	7.17	0.17	4.0	--	0.25%	--	--	--	--	0.05	--	--	--
Speedenamel 4318 Q.D. Gloss Enamel - White Tint Base (00407178 GLS WTB 4318-0700)	8.93	0.17	4.0	4.68%	--	0.83%	0.53%	--	1.24	--	0.22	0.14	--
Spectratron White Base Alkyd Enamel QT110HC	7.96	0.17	4.0	35.94%	--	7.35%	--	--	8.52	--	1.74	--	--
Spectratron White Base Alkyd Enamel QT110HW/01	9.43	0.17	4.0	30%	--	7%	--	--	8.43	--	1.97	--	--
Spectratron Bright Yellow Alkyd Enamel QT110YL255	8.35	0.17	4.0	30%	--	7%	--	-	7.46	--	1.74	--	0.00
SPDENAMEL GLS NTB 4318-0900	7.69	0.17	4.0	6.97%	--	1.23%	0.70%	--	1.60	--	0.28	0.16	--
PSX 700 Pearl Gray Resin (PX70023/01)	11.18	0.17	4.0	--	--	--	--	--	--	--	--	--	--
DGUARD ALK FLA BLACK 4300-9990	9.39	0.17	4.0	0.51%	--	0.15%	--	--	0.14	--	0.042	--	--
Total Potential to Emit									8.52	0.05	1.97	0.16	0.00

* Based on worst case coating. Source can only use one coating at a time and one spray applicator at a time.

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

VOC and HAPs
From Surface Coating Cleaning/Paint thinner

Company Name: C & M Conveyor, Inc.
 Address City IN Zip: 4598 State Road 37, Mitchell, IN 47446
 Registration: R093-16060-00029
 Revision Number: 093-35657-00029
 Reviewer: Monica Dick

Product Name	Maximum Usage (gal/yr)	Density (lb/gal)	Maximum Usage (tpy)	Hexane (Wt %)	Acetone (Wt %)	Hexane Emission Rate (tpy)*
Hexane**	196	5.63	0.55	100.00%	--	0.55
						0.55

METHODOLOGY

* HAPS emission rate (tons/yr) = Maximum Usage per year (tons/year) * Weight % HAP

** Maximum Usage per year = No. gal/year * density(lb/gal)

Used the ratio of actual usage of hexane to actual paint usage to calculate maximum gal/yr of Hexane.

actual usage gallon of hexane = gallon hexane purchased - Seven (7) 55 gallon drums of hexane were sent offsite in 2014.

Saw Cutting Operations

Company Name: C & M Conveyor, Inc.
 Address City IN Zip: 4598 State Road 37, Mitchell, IN 47446
 Registration: R093-16060-00029
 Revision Number: 093-35657-00029
 Reviewer: Monica Dick

Emission Unit Description	Material Cut	Typical Annual Units Cut (Units Cut/yr)	Maximum Annual Units Cut (Units Cut/yr)	Number of Saws	Thickness of Cut (in)	Thickness of Material Cut (in)	Width of Material Cut (in)	Density of Material Cut (lb/ft ³)
Metal Saws	Steel sheet	33,408	50,112	4	0.06	0.25	12.00	490
Wood Saw	Wood	5,595	8,393	1	0.13	4.00	4.00	40

Emission Unit Description	Material Loss per Cut (lb/cut)	PM/PM ₁₀ /PM _{2.5} Emission Rate (tpy) *
Metal Saws	0.05	5.33
Wood Saw	0.05	0.19
Totals:		5.52

Notes:

* Assume PM10 and PM2.5 = PM.

Assumed 100 percent of material removed from cut parts is emitted as PM.

Methodology:

Material Loss per Cut (lb/cut) = Thickness of Cut (in) * Thickness of Material Cut (in) * Width of Material Cut (in) / 1,728 (in³/ft³) * Density of Material Cut (lb/ft³)

PM/PM10/PM2.5 Emission Rate (tpy) = Material Loss per Cut (lb/cut) * Maximum Annual Units Cut (Units Cut/yr) * Cuts per Unit (Cuts/unit) / 2,000 (lb/ton)

MIG Welding Operation

Company Name: C & M Conveyor, Inc.
 Address City IN Zip: 4598 State Road 37, Mitchell, IN 47446
 Registration: R093-16060-00029
 Revision Number: 093-35657-00029
 Reviewer: Monica Dick

Maximum Rod Usage (in/min):	299
Default Fume Generation Rate (lb/lb rod)¹:	0.01
Default NASSCO Fume Correction Factor²:	0.55

Product Name	Wire Density (lb/ft ³)	Wire Diameter (inches)	Wire Cross-Sectional Area (ft ²)	Maximum Annual Rod Usage (lb/yr)	Manganese (Wt %)	Chromium (Wt %)	Copper (Wt %)	Nickel (Wt %)
UltraCore 71A85	414.72	0.045	1.10E-05	59,920	5.00	0	0	0
Carbon Steel Welding Wire	489.60	0.035	6.68E-06	42,792	1.80	1.0	1.0	1.0

Product Name	PM/PM10/PM2.5 Emission Rate (tpy)	Manganese Emission Rate (tpy)	Chromium Emission Rate (tpy)	Copper Emission Rate (tpy)	Nickel Emission Rate (tpy)
UltraCore 71A85	0.30	8.24E-03	0	0	0
Carbon Steel Welding Wire	0.21	2.12E-03	1.18E-03	1.18E-03	1.18E-03
Total:	0.51	1.04E-02	1.18E-03	1.18E-03	1.18E-03

¹ HAP contents obtained from manufacturer MSDSs. Chromium, copper, and nickel concentrations conservatively assumed to be 1 percent.

² Default fume generation rates and NASSCO Fume Correction Factors for MIG welding per San Diego APCD, *M99 - Metal Inert Gas Arc Welding(MIG), Unspecified Electrode, General District-ARB-Nassco GMAW Emission Estimation Procedure (8/99)*, www.sdapcd.org/toxics/emissions/welding/m99.pdf.

Methodology:

Maximum annual rod usage (lb/yr) = Maximum Annual Rod Usage (in/min) / 12 (in/ft) * Wire Cross-sectional Area (ft²) * Density (lb/ft³) * 60 (min/hr) * 8,760

PM/PM10/PM2.5 Emission Rate (tpy) = Maximum Annual Rod Usage (lb/yr) * Default FGR Factor (lb/lb rod) / 2,000 (lb/ton)

HAP Emission Rate (tpy) = Maximum Annual Rod Usage (lb/yr) * Default FGR Factor (lb/lb rod) * NASSCO Fume Correction Factor * HAP (Wt %)/100 / 2,000 (lb/ton)

Natural Gas Combustion Only Heaters

Company Name: C & M Conveyor, Inc.
Address City IN Zip: 4598 State Road 37, Mitchell, IN 47446
Registration: R093-16060-00029
Revision Number: 093-35657-00029
Reviewer: Monica Dick

Heat Input Capacity	HHV	Potential Throughput	Unit Description
MMBtu/hr	$\frac{\text{mmBtu}}{\text{mmscf}}$	MMCF/yr	
0.2			Unit Heater #1 200,000 Btu/hr
0.2			Unit Heater #2 200,000 Btu/hr
0.2			Unit Heater #3 200,000 Btu/hr
0.2			Unit Heater #4 200,000 Btu/hr
0.2			Unit Heater #5 200,000 Btu/hr
0.18			AHU #1 183,680 Btu/hr
0.093			AHU #2 93,000 Btu/hr
0.4			AHU #3 400,000 Btu/hr
0.12			Office Heating Unit 120,000 Btu/hr
2.419			Air Make up Unit 2,419,000 Btu/hr
4.22	1020	36.2	

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
					**see below		
Potential Emission in tons/yr	0.03	0.14	0.14	1.09E-02	1.81	0.10	1.52

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

PM2.5 emission factor is filterable and condensable PM2.5 combined.

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu

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

HAPS Calculations

Emission Factor in lb/MMcf	HAPs - Organics					Total - Organics
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	
	2.1E-03	1.2E-03	7.5E-02	1.8	3.4E-03	
Potential Emission in tons/yr	3.8E-05	2.2E-05	1.4E-03	0.0	6.2E-05	0.03

Emission Factor in lb/MMcf	HAPs - Metals				Total - Metals	
	Lead	Cadmium	Chromium	Manganese		
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	9.1E-06	2.0E-05	2.5E-05	6.9E-06	3.8E-05	9.9E-05
					Total HAPs	0.03
					Worst HAP	0.03

Methodology is the same as above.

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

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

Appendix A: Emission Calculations
Fugitive Dust Emissions - Paved Roads

Company Name: C & M Conveyor, Inc.
 Address City IN Zip: 4598 State Road 37, Mitchell, IN 47446
 Registration: R093-16060-00029
 Revision Number: 093-35657-00029
 Reviewer: Monica Dick

Paved Roads at Industrial Site

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Information (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Tractor Trailer (entering plant) (one-way trip)	2.0	1.0	2.0	32.5	65.0	340	0.064	0.1	47.0
Tractor Trailer (leaving plant) (one-way trip)	2.0	1.0	2.0	32.5	65.0	340	0.064	0.1	47.0
LTL Carrier (entering plant) (one-way trip)	2.0	1.0	2.0	15.0	30.0	340	0.064	0.1	47.0
LTL Carrier (leaving plant) (one-way trip)	2.0	1.0	2.0	15.0	30.0	340	0.064	0.1	47.0
FedEx Truck (entering plant) (one-way trip)	2.0	1.0	2.0	5.0	10.0	340	0.064	0.1	47.0
FedEx Truck (leaving plant) (one-way trip)	2.0	1.0	2.0	5.0	10.0	340	0.064	0.1	47.0
Totals			12.0		210.0			0.8	282.0

Average Vehicle Weight Per Trip =

17.5

 tons/trip
 Average Miles Per Trip =

0.06

 miles/trip

Unmitigated Emission Factor, Ef = $[k * (sL)^{0.91} * (W)^{1.02}]$ (Equation 1 from AP-42 13.2.1)

where k =

PM	PM10	PM2.5
0.011	0.0022	0.00054

 lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)
 W =

17.5

 tons = average vehicle weight (provided by source)
 sL =

0.6

 g/m² = ubiquitous baseline silt loading value for paved roads with low ADT (<500) (AP-42 Table 13.2.1-2)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = $E * [1 - (p/4N)]$ (Equation 2 from AP-42 13.2.1)

Mitigated Emission Factor, Eext = $Ef * [1 - (p/4N)]$
 where p =

125

 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
 N =

365

 days per year

Unmitigated Emission Factor, Ef =

PM	PM10	PM2.5
0.128	0.026	0.0063

 lb/mile
 Mitigated Emission Factor, Eext =

0.117	0.023	0.0057
-------	-------	--------

 lb/mile
 Dust Control Efficiency =

0%	0%	0%
----	----	----

 (pursuant to control measures outlined in fugitive dust control plan)

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Tractor Trailer (entering plant) (one-way trip)	3.01E-03	6.02E-04	1.48E-04	2.75E-03	5.50E-04	1.35E-04	2.75E-03	5.50E-04	1.35E-04
Tractor Trailer (leaving plant) (one-way trip)	3.01E-03	6.02E-04	1.48E-04	2.75E-03	5.50E-04	1.35E-04	2.75E-03	5.50E-04	1.35E-04
LTL Carrier (entering plant) (one-way trip)	3.01E-03	6.02E-04	1.48E-04	2.75E-03	5.50E-04	1.35E-04	2.75E-03	5.50E-04	1.35E-04
LTL Carrier (leaving plant) (one-way trip)	3.01E-03	6.02E-04	1.48E-04	2.75E-03	5.50E-04	1.35E-04	2.75E-03	5.50E-04	1.35E-04
FedEx Truck (entering plant) (one-way trip)	3.01E-03	6.02E-04	1.48E-04	2.75E-03	5.50E-04	1.35E-04	2.75E-03	5.50E-04	1.35E-04
FedEx Truck (leaving plant) (one-way trip)	3.01E-03	6.02E-04	1.48E-04	2.75E-03	5.50E-04	1.35E-04	2.75E-03	5.50E-04	1.35E-04
Totals	1.81E-02	3.61E-03	8.87E-04	1.65E-02	3.30E-03	8.11E-04	1.65E-02	3.30E-03	8.11E-04

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
 Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
 Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Unmitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
 Mitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
 Controlled PTE (tons/yr) = [Mitigated PTE (tons/yr)] * [1 - Dust Control Efficiency]

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PM2.5 = Particle Matter (<2.5 um)
 PTE = Potential to Emit



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

TO: David Robinson
C & M Conveyor, Inc.
PO Box 379
Mitchell, IN 47446

DATE: April 23, 2015

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

SUBJECT: Final Decision
Registration Revision
093-35657-00029

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:
Kim Cottrell, Trinity Consultants
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 6/13/2013

Mail Code 61-53

IDEM Staff	VHAUN 4/23/2015 C & M Conveyor Inc 093-35657-00029 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		David Robinson C & M Conveyor Inc PO Box 379 Mitchell IN 47446 (Source CAATS)	VIA CERTIFIED MAIL USPS									
2		Lawrence County Board of Commissioners 916 15th Street Bedford IN 47421 (Local Official)										
3		Mr. Anthony Wray 1861 Buddha Bypass Rd Bedford IN 47421 (Affected Party)										
4		Mr. Bobby Minton 7745 S. Fairfax Rd Bloomington IN 47401 (Affected Party)										
5		Mr. Danny Arnold 374 Cedar View Ln. Bedford IN 47421 (Affected Party)										
6		Mr. David Weatherholt Boilermaker Local #374 4777 East County Road 2100 North Dale IN 47523 (Affected Party)										
7		Mr. Don Sherry 1111 215 St. Tell City IN 47506-2815 (Affected Party)										
8		Mitchell City Council and Mayors Office 407 S. 6th St. Mitchell IN 47446 (Local Official)										
9		Lawrence County Health Department 2419 Mitchell Rd. Bedford, IN 47421 (Health Department)										
10		Kim Cottrell Trinity Consultants 7330 Woodland Drive, Suite 225 Indianapolis IN 46278 (Consultant)										
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