



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: November 18, 2011

RE: Master Power Transmission / 005 - 30959 - 00092

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



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Stephen Knott
Master Power Transmission
3300 E. 10th Street
Columbus, IN 47201

November 18, 2011

Re: Exempt Operation Status,
EX 005-30959-00092

Dear Mr. Knott

The application from Master Power Transmission, received on September 22, 2011, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-1.1-3, it has been determined that the following stationary electrical motor gearbox manufacturing plant located at 3300 E. 10th Street Columbus, Indiana is classified as exempt from air pollution permit requirements:

- (a) multiple detergent-based parts washers for pre-assembly metal parts cleaning, installed in 2002, using a combined total of 0.92 gallons of cleaner per hour, exhausting into the building;
- (b) multiple Safety-Kleen solvent parts washers for the Repair Department cleaning, installed in 2002, using a combined 0.12 gallons per hour of cleaning solvent, exhausting into the building;
- (c) machining operations of up to 800 pounds of metal parts per hour using machining centers, lathes, drills and milling machines and applying a maximum of 0.8 gallons per hour of machining coolant to several machines, with some of the equipment, identified as various, installed prior to 1970 and some of the equipment installed in 2002, all exhausting into the building;
- (d) two (2) shielded metal arc (SMA) welding stations, identified as 3701 and 4394, respectively, constructed in 2002, using a total of 5 pounds of welding rods per hour, exhausting to stacks # 3701 and 4394, respectively;
- (e) one (1) paint spray booth, identified as Paint Booth 1, installed in 2002, using a maximum of 0.0595 gallons of coating per hour and maximum capacity of 20,000 units per year, equipped with a low pressure high volume spray application system and a dry filter for particulate matter overspray control, exhausting to stack # 0966;
- (f) one (1) paint spray booth, identified as Paint Booth 4, installed in 2008, using a maximum of 0.0017 gallons of coating per hour and maximum capacity of 29,170 units per year, using aerosol cans and no cleanup solvent;
- (g) two (2) natural gas fired evaporators, for waste coolant/cutting solution recycling, identified as Evaporators 1 and 2, installed in 2002, each with a burner heat input rating of 0.195 MMBtu per hour, processing up to a total of 92 pounds of waste solution per hour, each exhausting to stack # 5461 and 7713, respectively;
- (h) one (1) natural gas fired endothermic heat treat oven used for heat treating of metal parts during production, identified as T900, and one (1) natural gas fired Ipsen generator,

identified as 0366, installed prior to 1970, with a total heat input rating of 0.203 MMBtu per hour, with T900 exhausting to stack HO-5, and Ipsen 0366 exhausting to stack IG-1;

- (i) five (5) Instapak foam packaging spray stations with self-contained dispensing, used for the finished metal parts packaging, identified as No IDs, using a total maximum of 0.5 gallons of foam component material per hour;
- (j) nine (9) propane fuel fired lift trucks;
- (k) twenty-three (23) miscellaneous natural gas fired space heaters, each with a heat input rating of 0.175 MMBtu per hour;
- (l) forty-seven (47) miscellaneous natural gas fired space heaters, each with a heat input rating of 0.052 MMBtu per hour;
- (m) one (1) hot water heater, with a heat input rating of 0.199 MMBtu per hour;
- (n) two (2) hot water heaters, each with a heat input of 0.040 MMBtu per hour.

The following conditions shall be applicable:

- (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 permit:
 - (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- (2) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
 Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate matter (PM) emitted from the facilities listed below shall be limited as stated, based on the following:

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:

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

| Emission Unit/Activity | Process Weight Rate (lbs/hr) | Allowable PM Emissions (326 IAC 6-3-2) (lb/hr) |
|---|------------------------------|--|
| Cast iron parts machining, using lathes, machining centers, drills, grinders, ban saws, chuckers and milling machines | 800 | 2.2 |

- (3) 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.
- (4) 326 IAC 8-3-2 (Cold Cleaner Operations)
Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations the owner or operator shall:
- (1) Equip the cleaner with a cover;
 - (2) Equip the cleaner with a facility for draining cleaned parts;
 - (3) Close the degreaser cover whenever parts are not being handled in the cleaner;
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (5) Provide a permanent, conspicuous label summarizing the operation requirements;
 - (6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

Pursuant to 326 IAC 2-1.1-9.5, all terms and conditions of permits established prior to Exemption No. 005-30959-00092 and issued pursuant to permitting programs approved into the state implementation plan have been either:

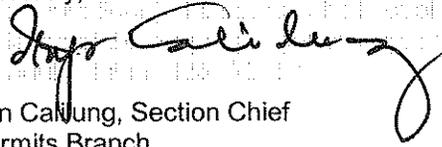
- (1) incorporated as originally stated,
- (2) revised, or
- (3) deleted.

All previous permits are superseded by this Exemption.

A copy of the Exemption is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

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. If you have any questions on this matter, please contact Sarah Germann, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, at (317) 232-8427 or at 1-800-451-6027 (ext 2-8427).

Sincerely,


Iryn Cai Lung, Section Chief
Permits Branch
Office of Air Quality

IC/sg

Attachments: Technical Support Document
Appendix A - Emissions Calculations

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

**Indiana Department of Environmental Management
Office of Air Quality**

Technical Support Document (TSD) for a Minor Source Operating Permit
Transitioning to an Exemption

| Source Description and Location |
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| | |
|-------------------------|---|
| Source Name: | Master Power Transmission |
| Source Location: | 3300 East Tenth Street, Columbus, IN 47201 |
| County: | Bartholomew |
| SIC Code: | 3566 (Speed Changers, Industrial High-Speed Drives, and Gears) |
| Exemption No.: | EX 005-30959-00092 |
| Permit Reviewer: | Sarah Germann |

On September 22, 2011, the Office of Air Quality (OAQ) received an application from Master Power Transmission related to the purchase of the former Baldor Electric Plant in Columbus, Indiana by Master Power Transmission and the removal of several emission units from the source. Due to this application, the source is transitioning from a Minor Source Operating Permit to an Exemption.

| Existing Approvals |
|---------------------------|
|---------------------------|

The source has been operating under previous approvals including, but not limited to, the following:

- (a) Minor Source Operating Permit No. M005-23566-00092, issued April 11, 2008
- (b) First Notice Only Change No. M005-28048-00092, issued December 4, 2008

Due to this application, the source is transitioning from a Minor Source Operating Permit to an Exemption.

The source has removed the following emission units, listed in MSOP No. M005-28048-00092, issued December 4, 2008:

- (a) one (1) flux bath for cast iron metal parts cleaning, identified as # 1111 installed in 2002, using a maximum of 3 pounds of flux per hour, venting to stack #1111.
- (b) two (2) tin coating baths for the tinning of cast iron parts, identified as # 2078 and 2773, installed in 2002, using a total maximum throughput for the two (2) tin coating baths of 2.5 pounds of tin solder per hour, venting to stacks # 2078 and 2773, respectively.
- (c) three (3) babbitt melting pots, identified as # 2772, 2930 and 9010, installed in 2002, using a total maximum of 28 pounds of Babbitt ingots per hour, with one (1) natural gas fired holding oven, identified as Oven #4, at a maximum heat input rate of 0.51 MMBtu per hour, exhausting to stacks # 2772, 2930 and 9010, respectively.
- (d) Babbitt casting coating process, identified as POURING TABLES, installed in 2002, pouring up to 28 pounds of melted Babbitt per hour, and coating tin-coated cast iron metal parts to produce 800 pounds of Babbitt-coated castings per hour, exhausting into the building.

- (e) machining operations of up to 800 pounds of Babbitt-coated castings per hour using machining centers, lathes, drills and milling machines, with some of the equipment identified as various, installed in 2002, all exhausting into the building.
- (f) Babbitt work-up/rework process for Babbitt castings repair and re-machining, identified as #0071A and 0071B, installed in 2002, with a capacity to process up to 375 pounds per hour of Babbitt-coated castings, using one (1) oxyacetylene torch and three (3) sanders, exhausting at stacks # 0071A and 071B.
- (g) one (1) media blast unit, using 60 grit fused alumina shot for blasting, identified as Rotoblast unit, equipped with a baghouse for particulate control, installed on June 7, 2003, capacity: the maximum capacity of the machine is 375 pounds of shot per hour and cleans 30 parts per day up to 80 lbs in size but the average part size being 40 lbs.
- (h) Two (2) paint spray booths, identified as Paint Booth 2 and 3, installed in 2002, each using 0.10 gallons of coating per hour, equipped with a low pressure high volume spray application system and a dry filter for particulate matter overspray control, each exhausting to stacks 1154 and 2587, respectively.
- (i) One (1) natural gas fired endothermic heat treat oven used for heat treating of metal parts during production, identified as T500, and one (1) natural gas fired Ipsen generator, identified as 0364 installed prior to 1970, with T500 exhausting to four (4) stacks identified as HO-1, HO-2, HO-3 and HO-4, , and Ipsen exhausting to stack IG-1. Unit 0364 is a backup unit to 0366.
- (j) one (1) electric Grieve epoxy curing oven, identified as 9025, installed in 2002, operating at a maximum of 650 pounds of metal parts per 90 minute batch cycle, exhausting into the building.

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| County Attainment Status |
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The source is located in Bartholomew County.

| Pollutant | Designation |
|---|---|
| SO ₂ | Better than national standards. |
| CO | Unclassifiable or attainment effective November 15, 1990. |
| O ₃ | Unclassifiable or attainment effective June 15, 2004, 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 Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM _{2.5} . | |

- (a) **Ozone Standards**
 Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Bartholomew 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}**
 Bartholomew 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. On May 4, 2011 the air pollution

control board issued an emergency rule establishing the direct PM_{2.5} significant level at ten (10) tons per year. This rule became effective, June 28, 2011. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

- (c) Other Criteria Pollutants
Bartholomew County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

The fugitive emissions of criteria pollutants, hazardous air pollutants, and greenhouse gases are counted toward the determination of 326 IAC 2-1.1-3 (Exemptions) applicability.

Background and Description of Emission Units and Pollution Control Equipment

The Office of Air Quality (OAQ) has reviewed an application, submitted by Master Power Transmission on September 22, 2011, related to the purchase of the former Baldor Electric Plant in Columbus, Indiana (Source ID 005-00092) by Master Power Transmission, as well as the request for an updated MSOP permit to indicate the new company name and the removal of emission units. During the review process IDEM determined that the source's potential to emit (PTE) levels are below Exemption thresholds, and the source then requested the application be treated as a transition from a Minor Source Operating Permit to an Exemption.

The stationary electrical motor gearbox manufacturing plant consists of the following existing emission unit(s):

- (a) multiple detergent-based parts washers for pre-assembly metal parts cleaning, installed in 2002, using a combined total of 0.92 gallons of cleaner per hour, exhausting into the building;
- (b) multiple Safety-Kleen solvent parts washers for the Repair Department cleaning, installed in 2002, using a combined 0.12 gallons per hour of cleaning solvent, exhausting into the building;
- (c) machining operations of up to 800 pounds of metal parts per hour using machining centers, lathes, drills and milling machines and applying a maximum of 0.8 gallons per hour of machining coolant to several machines, with some of the equipment, identified as various, installed prior to 1970 and some of the equipment installed in 2002, all exhausting into the building;
- (d) two (2) shielded metal arc (SMA) welding stations, identified as 3701 and 4394, respectively, constructed in 2002, using a total of 5 pounds of welding rods per hour, exhausting to stacks # 3701 and 4394, respectively;
- (e) one (1) paint spray booth, identified as Paint Booth 1, installed in 2002, using a maximum of 0.0595 gallons of coating per hour and maximum capacity of 20,000 units per year, equipped with a low pressure high volume spray application system and a dry filter for particulate matter overspray control, exhausting to stack # 0966;
- (f) one (1) paint spray booth, identified as Paint Booth 4, installed in 2008, using a maximum of 0.0017 gallons of coating per hour and maximum capacity of 29,170 units per year, using aerosol cans and no cleanup solvent;
- (g) two (2) natural gas fired evaporators, for waste coolant/cutting solution recycling, identified as Evaporators 1 and 2, installed in 2002, each with a burner heat input rating of 0.195 MMBtu per hour, processing up to a total of 92 pounds of waste solution per hour, each exhausting to stack # 5461 and 7713, respectively;

- (h) one (1) natural gas fired endothermic heat treat oven used for heat treating of metal parts during production, identified as T900, and one (1) natural gas fired Ipsen generator, identified as 0366, installed prior to 1970, with a total heat input rating of 0.203 MMBtu per hour, with T900 exhausting to stack HO-5, and Ipsen 0366 exhausting to stack IG-1;
- (i) five (5) Instapak foam packaging spray stations with self-contained dispensing, used for the finished metal parts packaging, identified as No IDs, using a total maximum of 0.5 gallons of foam component material per hour;
- (j) nine (9) propane fuel fired lift trucks;
- (k) twenty-three (23) miscellaneous natural gas fired space heaters, each with a heat input rating of 0.175 MMBtu per hour;
- (l) forty-seven (47) miscellaneous natural gas fired space heaters, each with a heat input rating of 0.052 MMBtu per hour;
- (m) one (1) hot water heater, with a heat input rating of 0.199 MMBtu per hour;
- (n) two (2) hot water heaters, each with a heat input of 0.040 MMBtu per hour.

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| Enforcement Issues |
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There are no pending enforcement actions related to this source.

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| Emission Calculations |
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See Appendix A of this TSD for detailed emission calculations.

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

| Process/ Emission Unit | Potential To Emit of the Entire Source (tons/year) | | | | | | | | | |
|--|--|-------------|-------------|-----------------|-----------------|-------------|-------------|-----------------------------|-------------|------------------|
| | PM | PM10* | PM2.5 | SO ₂ | NO _x | VOC | CO | GHGs as CO ₂ e** | Total HAPs | Worst Single HAP |
| Miscellaneous Natural Gas and Propane Combustion | 0.06 | 0.25 | 0.25 | 0.02 | 3.08 | 0.18 | 1.37 | 3,920 | 0.06 | 0.0317 Hexane |
| Paint Booths (Paint Booth 1 and Paint Booth 4) | 0.71 | 0.71 | 0.71 | - | - | 0.94 | - | - | 0.53 | 0.3208 Xylene |
| Welding - 2 Shielded Metal Arc (SMA) Stations (3701 and 4394) | 3.03 | 3.03 | 3.03 | - | - | - | - | - | 0.17 | 0.1694 Manganese |
| Cast Iron Parts Machining | 0.69 | 0.31 | 0.31 | - | - | 3.22 | - | - | 0.69 | 0.3623 Copper |
| Cast Iron Parts Cleaning | - | - | - | - | - | 3.90 | - | - | - | - |
| Packaging Operations - 5 Instapak Foam Spray Stations | - | - | - | - | - | 0.53 | - | - | 0.51 | 0.51 MDI |
| Coolant Recycling (2 Evaporators) | - | - | - | - | - | 0.66 | - | - | - | - |
| Total PTE of Entire Source | 4.49 | 4.30 | 4.30 | 0.02 | 3.08 | 9.43 | 1.37 | 3,920 | 1.96 | 0.51 MDI |
| Exemptions Levels** | 5 | 5 | 5 | 10 | 10 | 10 | 25 | 100,000 | 25 | 10 |
| Registration Levels** | 25 | 25 | 25 | 25 | 25 | 25 | 100 | 100,000 | 25 | 10 |
| *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 100,000 CO ₂ e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD. | | | | | | | | | | |

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of all regulated criteria pollutants are less than the levels listed in 326 IAC 2-1.1-3(e)(1). Therefore, the source is subject to the provisions of 326 IAC 2-1.1-3 (Exemptions).
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.
- (c) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) greenhouse gases (GHGs) is less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) 40 CFR Part 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines)
The one (1) natural gas fired Ipsen generator, identified as 0366, is not subject to 40 CFR Part 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines), since it is an endothermic generator and works in conjunction with the (1) natural gas fired endothermic heat treat oven and does not meet the definition of a stationary compression ignition (CI) internal combustion engine (ICE).
- (b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (c) 40 CFR Part 63, Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines)
The one (1) natural gas fired Ipsen generator, identified as 0366, is not subject to 40 CFR Part 63, Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), since it is an endothermic generator and works in conjunction with the (1) natural gas fired endothermic heat treat oven and does not meet the definition of a stationary reciprocating internal combustion engine (RICE).
- (b) 40 CFR Part 63, Subpart T (National Emission Standards for Halogenated Solvent Cleaning)
The parts cleaning operation at the Repair Department that includes various Safety-Kleen solvent parts washers is not subject to the National Emission Standards for Hazardous Air Pollutants, 326 IAC 20, (40 CFR 63, Subpart T). Subpart T applies to degreasing operations using one of six listed halogenated solvents, or any combination of the solvents in a concentration greater than 5 percent by weight, as a cleaning or drying agent. The source does not use the regulated halogenated solvents in the degreasing operation; therefore, Subpart T does not apply.
- (d) 40 CFR Part 63, Subpart MMMM (National Emission Standards for Surface Coating of Miscellaneous Metal Parts and Products)
This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63, Subpart MMMM (326 IAC 20-88), because this source is not a major source of HAPs as defined in 40 CFR 63.2.
- (e) 40 CFR Part 63, Subpart HHHHHH (National Emission Standards for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources)
The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH (326 IAC 20-88), are not included for this exemption because the coating materials do not contain 0.1 percent or more by mass of the metal HAPs (cadmium (Cd), chromium (Cr), lead (Pb), manganese (Mn), or nickel (Ni)), and this source do not perform paint stripping using Methylene Chloride.
- (f) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

- (g) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit,

because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

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| State Rule Applicability Determination |
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- (a) 326 IAC 2-1.1-3 (Exemptions)
Exemption applicability is discussed under the Permit Level Determination – Exemption section above.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (c) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is 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.
- (f) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
The source is not subject to the requirements of 326 IAC 6-5, because the source does not have potential fugitive particulate emissions greater than 25 tons per year. Therefore, 326 IAC 6-5 does not apply.
- (g) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Each of the emission units at this source is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each emission unit is less than twenty-five (25) tons per year.

Paint Booths

- (h) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Paint Booth 1 and Paint Booth 4 are not subject to the requirements of 326 IAC 6-3-2, since pursuant to 326 IAC 6-3-1(b)(15), surface coating manufacturing processes that use less than five (5) gallons per day are exempt from this rule.

(Note: The finished metal parts packaging process, consisting of five (5) Instapak foam packaging spray stations, was previously determined to generate no particulate overspray emissions, in MSOP No. 005-23566-00092, issued April 11, 2008, and confirmed by OAQ, Compliance Section. The process involves spraying polymerizing foam (containing MDI) into an enclosed package that contains the finished metal product to prevent product damage during shipping.)

- (i) 326 IAC 8-2-9 (Surface Coating Emission Limitations)
 Pursuant to 326 IAC 8-2-1(a)(4) and § 8-2-9(a)(5), this rule applies to facilities include any industrial category which coats metal parts or products under the Standard Industrial Classification Code of major group 35: Industrial And Commercial Machinery And Computer Equipment, constructed after July 1, 1990, located in any county, and which have actual emissions of greater than fifteen (15) pounds of VOCs per day before add-on controls.

This source performs miscellaneous metal coating operations as described in 326 IAC 8-2-9 but has actual emissions of less than fifteen (15) pounds of VOC per day before add-on controls in Paint Booth 1 and Paint Booth 4 and therefore is not subject to the requirements of 326 IAC 8-2-9.

Cast Iron Parts Machining Operations

- (j) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
 The cast iron parts machining operations are subject to the requirements of 326 IAC 6-3-2. Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate matter (PM) emitted from the facilities listed below shall be limited as stated, based on the following:

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:

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

| Emission Unit/Activity | Process Weight Rate (lbs/hr) | Allowable PM Emissions (326 IAC 6-3-2) (lb/hr) |
|---|------------------------------|--|
| Cast iron parts machining, using lathes, machining centers, drills, grinders, ban saws, chucks and milling machines | 800 | 2.2 |

Based on TSD Appendix A, the potential to emit of PM from the cast iron parts machining operations, is 0.6866 tons per year.

For the cast iron parts machining operations:
 $0.6866 \text{ tons/yr} \times (2000 \text{ lbs/ton} / 8760 \text{ hrs/yr}) = 0.16 \text{ lbs/hr}$

Therefore, the cast iron parts machining operations will be able to comply with this rule.

As determined in MSOP No. 005-23566-00092, issued April 11, 2008, there will be no compliance monitoring condition specified for these facilities/activities since they do not have a control device and do not have actual emissions exceeding 25 tons per year, nor do they have allowable emissions for the controlled pollutant (i.e., PM) exceeding 10 pounds per hour

Welding Operations

- (k) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
The two (2) shielded metal arc (SMA) welding stations, using a total of 5 pounds of welding rods per hour are not subject to the requirements of 326 6-3-2, since pursuant to 326 6-3-1(b)(9), welding operations that use less than six hundred twenty-five (625) pounds of rod or wire per day are exempt from this rule.

Solvent Cleaning

- (l) 326 IAC 8-3-2 (Cold Cleaner Operations)
The degreasing operation is subject to the requirements of 326 IAC 8-3-2 (Cold Cleaner Operations) since it was constructed after January 1, 1980 and meets the definition of a cold cleaner degreaser as specified in 326 IAC 1-2-18.5.

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations the owner or operator shall:

- (1) Equip the cleaner with a cover;
 - (2) Equip the cleaner with a facility for draining cleaned parts;
 - (3) Close the degreaser cover whenever parts are not being handled in the cleaner;
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (5) Provide a permanent, conspicuous label summarizing the operation requirements;
 - (6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.
- (m) 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)
The degreasing operation was constructed after July 1, 1990. However, it is not subject to the requirements of 326 IAC 8-3-5 (Cold Cleaner Operations) because it is equipped with a remote solvent reservoir.

Natural Gas and Propane Units

- (n) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)
The natural gas-fired heaters, evaporators and heat treat ovens are not subject to 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating), because, pursuant to 326 IAC 1-2-19, these emission units do not meet the definition of an indirect heating unit.
- (o) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
The natural gas-fired combustion units are exempt from the requirements of 326 IAC 6-3, because, pursuant to 326 IAC 1-2-59, liquid and gaseous fuels and combustion air are not considered as part of the process weight.
- (p) 326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations)
This source is not subject to 326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations) because the potential to emit sulfur dioxide from each natural gas-fired combustion unit is less than twenty-five (25) tons per year and ten (10) pounds per hour.

- (q) 326 IAC 9-1-1 (Carbon Monoxide Emission Limits)
The natural gas-fired combustion units are not subject to 326 IAC 9-1-1 (Carbon Monoxide Emission Limits) because there is no applicable emission limits for the source under 326 IAC 9-1-2.
- (r) 326 IAC 10-1-1 (Nitrogen Oxides Control)
The natural gas-fired combustion units are not subject to 326 IAC 10-1-1 (Nitrogen Oxides Control) because the source is not located in Clark or Floyd counties.
- (s) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.
- (t) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on September 22, 2011

The operation of this source shall be subject to the conditions of the attached Exemption No. 005-30959-00092. The staff recommends to the Commissioner that this Exemption be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Sarah Germann 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) 232-8427 or toll free at 1-800-451-6027 extension 2-8427.
- (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: Emission Calculations
Summary**

**Company Name: Master Power Transmission
Address City IN Zip: 3300 East Tenth Street, Columbus, Indiana 47201
Permit Number: EX 005-30959-00092
Reviewer: Sarah Germann
Date: 10/17/2011**

| Emissions Generating Activity | Unlimited Potential Emissions (tons/year) | | | | | | | | | |
|---|---|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|----------------------------|
| | PM | PM10* | PM2.5 | SO2 | NOx | VOC | CO | GHGs as CO2e | Total HAPs | Worst Case Individual HAPs |
| Miscellaneous Natural Gas and Propane Combustion | 0.06 | 0.25 | 0.25 | 0.02 | 3.08 | 0.18 | 1.37 | 3,920 | 0.06 | 0.0579 Hexane |
| Paint Booths (Paint Booth 1 and Paint Booth 4) | 0.71 | 0.71 | 0.71 | - | - | 0.94 | - | - | 0.53 | 0.3208 Xylene |
| Welding - 2 Shielded Metal Arc (SMA) Stations (3701 and 4394) | 3.03 | 3.03 | 3.03 | - | - | - | - | - | 0.17 | 0.1694 Manganese |
| Cast Iron Parts Machining | 0.69 | 0.31 | 0.31 | - | - | 3.22 | - | - | 0.69 | 0.3623 Copper |
| Cast Iron Parts Cleaning | - | - | - | - | - | 3.90 | - | - | - | - |
| Packaging Operations - 5 Instapak Foam Spray Stations | - | - | - | - | - | 0.53 | - | - | 0.51 | 0.5100 MDI |
| Coolant Recycling (2 Evaporators) ⁽¹⁾ | - | - | - | - | - | 0.66 | - | - | - | - |
| Total Potential to Emit (tons/year): | 4.49 | 4.30 | 4.30 | 0.02 | 3.08 | 9.43 | 1.37 | 3,920 | 1.96 | 0.5100 MDI |
| Exemptions Levels** | 5 | 5 | 5 | 10 | 10 | 10 | 25 | 100,000 | 25 | 10 |
| Registration Levels** | 25 | 25 | 25 | 25 | 25 | 25 | 100 | 100,000 | 25 | 10 |

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

**The 100,000 CO₂e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.

Notes:

(1) Includes natural gas combustion emissions, as computed in "Miscellaneous Natural Gas and Propane Combustion" section

**Appendix A: Emission Calculations
Natural Gas & Propane Combustion
MM BTU/HR <100**

**Company Name: Master Power Transmission
Address City IN Zip: 3300 East Tenth Street, Columbus, Indiana 47201
Permit Number: EX 005-30959-00092
Reviewer: Sarah Germann
Date: 10/17/2011**

| Combustion Unit Type | Heat Capacity (MMBtu/hr) | No. of Units | Potential Gas Thruput (MMCF/yr) | Emission Factor in lb/MMCF | | | | | | | Potential Emission Rate in tons/year | | | | | | |
|--|--------------------------|--------------|--|---|-------|---------------|---------|-------|-----------|-------|--------------------------------------|-------------|---------------|-------------|-------------|-------------|-------------|
| | | | | PM* | PM10* | direct PM2.5* | SO2 | NOx** | VOC | CO*** | PM | PM10 | direct PM2.5* | SO2 | NOx | VOC | CO |
| Natural Gas Firing | | | | | | | | | | | | | | | | | |
| Curing (Heat Treat Oven T900 & Ipsen Generator 0366) | 0.203 | 1 | 1.78 | 1.9 | 7.6 | 7.6 | 0.6 | 100 | 5.5 | 84 | 0.00 | 0.01 | 0.01 | 0.00 | 0.09 | 0.00 | 0.07 |
| Evaporator 1 Burner | 0.195 | 1 | 1.71 | 1.9 | 7.6 | 7.6 | 0.6 | 94 | 5.5 | 40 | 0.00 | 0.01 | 0.01 | 0.00 | 0.08 | 0.00 | 0.03 |
| Evaporator 2 Burner | 0.195 | 1 | 1.71 | 1.9 | 7.6 | 7.6 | 0.6 | 100 | 5.5 | 84 | 0.00 | 0.01 | 0.01 | 0.00 | 0.09 | 0.00 | 0.07 |
| Space Heaters (Plant-wide) | 0.175 | 23 | 35.26 | 1.9 | 7.6 | 7.6 | 0.6 | 94 | 5.5 | 40 | 0.03 | 0.13 | 0.13 | 0.01 | 1.66 | 0.10 | 0.71 |
| Space Heaters (Plant-wide) | 0.052 | 47 | 21.41 | 1.9 | 7.6 | 7.6 | 0.6 | 94 | 5.5 | 40 | 0.02 | 0.08 | 0.08 | 0.01 | 1.01 | 0.06 | 0.43 |
| Hot Water Heater | 0.199 | 1 | 1.74 | 1.9 | 7.6 | 7.6 | 0.6 | 94 | 5.5 | 40 | 0.00 | 0.01 | 0.01 | 0.00 | 0.08 | 0.00 | 0.03 |
| Hot Water Heaters | 0.040 | 2 | 0.70 | 1.9 | 7.6 | 7.6 | 0.6 | 94 | 5.5 | 40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.01 |
| Propane Firing | | | | | | | | | | | | | | | | | |
| | | | Potential Propane Thruput (10 ³ gallons)/year | Emission Factor in lb/10 ³ gal | | | | | | | Potential Emission Rate in tons/year | | | | | | |
| Propane Lift Trucks | | | 6.02 | 0.4 | 0.4 | 0.4 | 0.6 | 14 | 0.5 | 1.9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.01 |
| | | | | | | | (0.10S) | | TOC value | | | | | | | | |
| Total Potential to Emit (tons per year): | | | | | | | | | | | 0.06 | 0.25 | 0.25 | 0.02 | 3.08 | 0.18 | 1.37 |

Methodology

*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 = 94 for heat input capacity < 0.3 MMBtu/hr; = 100 for heat input capacity =>0.3 MMBtu/hr

**Emission Factors for CO: Uncontrolled = 40 for heat input capacity < 0.3 MMBtu/hr; = 84 for heat input capacity =>0.3 MMBtu/hr

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

For Natural Gas Firing:

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

Emission Factors for all units except generators 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 (SUPPL. D 7/98)

For Propane Firing:

Emission Factors are from AP42 (Supplement B 10/96), Table 1.5-1 (SCC #1-03-010-02)

S equals the sulfur content expressed in gr/100 ft3 gas vapor. For example, if the butane sulfur content is 0.18 gr/100 ft3, the emission factor would be (0.09 x 0.18) = 0.016 lb of SO2/103 gal butane burned.

1 gallon of LPG has a heating value of 94,000 Btu ;1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.0915 MMBtu

PM emission factor is filterable PM only. PM10 emission factor is assumed to be the same as PM based on a footnote in Table 1.5-1, therefore PM10 is filterable only as well.

See following page for HAPs emissions

**Appendix A: Emission Calculations
Natural Gas & Propane Combustion
HAPs
MM BTU/HR <100**

**Company Name: Master Power Transmission
Address City IN Zip: 3300 East Tenth Street, Columbus, Indiana 47201
Permit Number: EX 005-30959-00092
Reviewer: Sarah Germann
Date: 10/17/2011**

| Combustion Unit Type | Heat Capacity (MMBtu/hr) | No. of Units | Potential Gas Thruput (MMCF/yr) | HAPs - Organics | | | | | | | | | |
|--|--------------------------|--------------|---------------------------------|----------------------------|-----------------|--------------|---------|---------|--------------------------------------|-----------------|--------------|----------|----------|
| | | | | Emission Factor in lb/MMCF | | | | | Potential Emission Rate in tons/year | | | | |
| | | | | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene |
| Natural Gas Firing | | | | | | | | | | | | | |
| Curing (Heat Treat Oven T900 & Ipsen Generator 0366) | 0.203 | 1 | 1.78 | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 | 1.87E-06 | 1.07E-06 | 6.67E-05 | 1.60E-03 | 3.02E-06 |
| Evaporator 1 Burner | 0.195 | 1 | 1.71 | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 | 1.79E-06 | 1.02E-06 | 6.41E-05 | 1.54E-03 | 2.90E-06 |
| Evaporator 2 Burner | 0.195 | 1 | 1.71 | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 | 1.79E-06 | 1.02E-06 | 6.41E-05 | 1.54E-03 | 2.90E-06 |
| Space Heaters (Plant-wide) | 0.175 | 23 | 35.26 | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 | 3.70E-05 | 2.12E-05 | 1.32E-03 | 3.17E-02 | 5.99E-05 |
| Space Heaters (Plant-wide) | 0.052 | 47 | 21.41 | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 | 2.25E-05 | 1.28E-05 | 8.03E-04 | 1.93E-02 | 3.64E-05 |
| Hot Water Heater | 0.199 | 1 | 1.74 | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 | 1.83E-06 | 1.05E-06 | 6.54E-05 | 1.57E-03 | 2.96E-06 |
| Hot Water Heaters | 0.040 | 2 | 0.70 | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 | 7.36E-07 | 4.20E-07 | 2.63E-05 | 6.31E-04 | 1.19E-06 |

| Combustion Unit Type | Heat Capacity (MMBtu/hr) | No. of Units | Potential Gas Thruput (MMCF/yr) | HAPs - Metals | | | | | | | | | |
|--|--------------------------|--------------|---------------------------------|----------------------------|---------|----------|-----------|---------|--------------------------------------|----------|----------|-----------|----------|
| | | | | Emission Factor in lb/MMCF | | | | | Potential Emission Rate in tons/year | | | | |
| | | | | Lead | Cadmium | Chromium | Manganese | Nickel | Lead | Cadmium | Chromium | Manganese | Nickel |
| Natural Gas Firing | | | | | | | | | | | | | |
| Curing (Heat Treat Oven T900 & Ipsen Generator 0366) | 0.203 | 1 | 1.78 | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 | 4.45E-07 | 9.78E-07 | 1.24E-06 | 3.38E-07 | 1.87E-06 |
| Evaporator 1 Burner | 0.195 | 1 | 1.71 | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 | 4.27E-07 | 9.40E-07 | 1.20E-06 | 3.25E-07 | 1.79E-06 |
| Evaporator 2 Burner | 0.195 | 1 | 1.71 | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 | 4.27E-07 | 9.40E-07 | 1.20E-06 | 3.25E-07 | 1.79E-06 |
| Space Heaters (Plant-wide) | 0.175 | 23 | 35.26 | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 | 8.81E-06 | 1.94E-05 | 2.47E-05 | 6.70E-06 | 3.70E-05 |
| Space Heaters (Plant-wide) | 0.052 | 47 | 21.41 | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 | 5.35E-06 | 1.18E-05 | 1.50E-05 | 4.07E-06 | 2.25E-05 |
| Hot Water Heater | 0.199 | 1 | 1.74 | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 | 4.36E-07 | 9.59E-07 | 1.22E-06 | 3.31E-07 | 1.83E-06 |
| Hot Water Heaters | 0.040 | 2 | 0.70 | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 | 1.75E-07 | 3.85E-07 | 4.91E-07 | 1.33E-07 | 7.36E-07 |

Summary:

| | HAPs - Organics | | | | |
|-------------------------------------|-----------------|-----------------|--------------|----------|----------|
| | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene |
| Worst Case HAPs in tons/yr | 3.7E-05 | 2.1E-05 | 1.3E-03 | 3.2E-02 | 6.0E-05 |
| Total Potential Emission in tons/yr | 6.75E-05 | 3.86E-05 | 2.41E-03 | 5.79E-02 | 1.09E-04 |

| | HAPs - Metals | | | | |
|-------------------------------------|---------------|----------|----------|-----------|----------|
| | Lead | Cadmium | Chromium | Manganese | Nickel |
| Worst Case HAPs in tons/yr | 8.8E-06 | 1.9E-05 | 2.5E-05 | 6.7E-06 | 3.7E-05 |
| Total Potential Emission in tons/yr | 1.61E-05 | 3.54E-05 | 4.50E-05 | 1.22E-05 | 6.75E-05 |

Methodology is the same as previous page

The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4. See following page for Greenhouse Gas calculations.

**Appendix A: Emission Calculations
Natural Gas & Propane Combustion
Greenhouse Gases (GHGs)
MM BTU/HR <100**

**Company Name: Master Power Transmission
Address City IN Zip: 3300 East Tenth Street, Columbus, Indiana 47201
Permit Number: EX 005-30959-00092
Reviewer: Sarah Germann
Date: 10/17/2011**

| Combustion Unit Type | Heat Capacity (MMBtu/hr) | No. of Units | Potential Gas Thruput (MMCF/yr) | Emission Factor in lb/MMCF | | | Potential Emission Rate in tons/year | | |
|--|--------------------------|--------------|--|----------------------------|-----|-----|--------------------------------------|-------------|-------------|
| | | | | CO2 | CH4 | N2O | CO2 | CH4 | N2O |
| Natural Gas Firing | | | | | | | | | |
| Curing (Heat Treat Oven T900 & Ipsen Generator 0366) | 0.203 | 1 | 1.78 | 120,000 | 2.3 | 2.2 | 107 | 0.00 | 0.00 |
| Evaporator 1 Burner | 0.195 | 1 | 1.71 | 120,000 | 2.3 | 2.2 | 102 | 0.00 | 0.00 |
| Evaporator 2 Burner | 0.195 | 1 | 1.71 | 120,000 | 2.3 | 2.2 | 102 | 0.00 | 0.00 |
| Space Heaters (Plant-wide) | 0.175 | 23 | 35.26 | 120,000 | 2.3 | 2.2 | 2,116 | 0.04 | 0.04 |
| Space Heaters (Plant-wide) | 0.052 | 47 | 21.41 | 120,000 | 2.3 | 2.2 | 1,285 | 0.02 | 0.02 |
| Hot Water Heater | 0.199 | 1 | 1.74 | 120,000 | 2.3 | 2.2 | 105 | 0.00 | 0.00 |
| Hot Water Heaters | 0.040 | 2 | 0.70 | 120,000 | 2.3 | 2.2 | 42 | 0.00 | 0.00 |
| Propane Firing | | | | | | | | | |
| Propane Lift Trucks | | | Potential Propane Thruput (10 ³ gallons)/year | 12,500 | 0.2 | 0.9 | 38 | 0.00 | 0.00 |
| Total Potential to Emit (tons per year): | | | | | | | 3,896 | 0.07 | 0.07 |

Summary:

| Emission Factor in lb/MMcf | Greenhouse Gas | | |
|---------------------------------------|----------------|------|------|
| | CO2 | CH4 | N2O |
| 120,000 | 2.3 | 2.2 | |
| Potential Emission in tons/yr | 3,896 | 0.07 | 0.07 |
| Summed Potential Emissions in tons/yr | 3,896 | | |
| CO2e Total in tons/yr | 3,920 | | |

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64. Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03. Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A. Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission

For Propane Firing:

Emission Factors are from AP42 (Supplement B 10/96), Table 1.5-1 (SCC #1-03-010-02)

**Appendix A: Emissions Calculations
VOC and Particulate (Unlimited)
From Surface Coating Operations**

**Company Name: Master Power Transmission
Address City IN Zip: 3300 East Tenth Street, Columbus, Indiana 47201
Permit Number: EX 005-30959-00092
Reviewer: Sarah Germann
Date: 10/17/2011**

| Material | Density (lb/gal) | Weight % Volatile (H2O & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Maximum number of units/hour ⁽¹⁾ | Maximum gallons/unit ⁽²⁾ | Maximum (gal/hour) ⁽³⁾ | Maximum (gal/day) [326 IAC 6-3-2] | Pounds VOC per gallon of coating less water (lb/gal) | Pounds VOC per gallon of coating | Potential VOC pounds per hour | Potential VOC pounds per day [326 IAC 8-2-9] | Potential VOC (tons/yr) | Particulate Potential (tons/yr) | lb VOC/gal solids | Transfer Efficiency | |
|---|------------------|------------------------------------|----------------|-------------------|----------------|---------------------------------|---|-------------------------------------|-----------------------------------|-----------------------------------|--|----------------------------------|-------------------------------|--|-------------------------|---------------------------------|-------------------|---------------------|--|
| Paint Booth 1 Titan Blue/Green ⁽⁴⁾ | 11.2 | 31.00% | 0.0% | 31.0% | 0.0% | 54.00% | 2.28 | 0.026 | 0.0595 | 1.43 | 3.47 | 3.47 | 0.21 | 4.95 | 0.90 | 0.70 | 6.43 | 65% | |
| Paint Booth 4 Titan Blue/Green Aerosol Touch Up | 6.4 | 68.37% | 0.0% | 68.4% | 0.0% | 10.96% | 3.33 | 0.0005 | 0.0017 | 0.04 | 4.38 | 4.38 | 0.01 | 0.17 | 0.03 | 0.01 | 39.92 | 50% | |
| TOTAL PTE | | | | | | | | | | | | | 0.21 | 5.13 | 0.94 | 0.71 | | | |

NOTES

- (1) Maximum units per hour are based on the maximum production of units per year if the source had full staff and ran 8760 hours, divided by 8760 hours/year. Paint Booth 1 could produce 20,000 units per year. Paint Booth 4 could produce 29,170 units per year.
- (2) Maximum gallons per unit provided by the source. For Paint Booth 1, Average paint application time is 20 seconds. The gun shoots 10 ounces per minute or 0.1667 ounces per second. Over 20 seconds, it would apply 3.33 ounces per unit. Over 20,000 units, the source would use 66,664 ounces per year = 520.8 gallons. For Paint Booth 4, each gallon is calculated to be able to paint 2001.8 pieces, which is 1/2001.8 = 0.0005 gallons/unit.
- (3) Maximum (gal/hour) = Maximum number of units/hour * Maximum gallons/unit
- (4) The source uses an acetone cleanup solvent in Paint Booth 1

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Maximum (gal/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Maximum (gal/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Maximum (gal/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (gal/hour) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

Appendix A: Emission Calculations
HAP Emission Calculations

Company Name: Master Power Transmission
Address City IN Zip: 3300 East Tenth Street, Columbus, Indiana 47201
Permit Number: EX 005-30959-00092
Permit Reviewer: Sarah Germann
Date: 10/17/2011

| Material | Density (lb/gal) | Maximum (gal/hour) | Weight % Xylene | Weight % Toluene | Weight % Formaldehyde | Weight % Benzene | Weight % Hexane | Weight % Glycol Ethers | Weight % Methanol | HAP Emission Rates (Tons/yr) | | | | | | |
|---|------------------|--------------------|-----------------|------------------|-----------------------|------------------|-----------------|------------------------|-------------------|------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------|----------------------------------|-----------------------------|
| | | | | | | | | | | Xylene Emissions (ton/yr) | Toluene Emissions (ton/yr) | Formaldehyde Emissions (ton/yr) | Benzene Emissions (ton/yr) | Hexane Emissions (ton/yr) | Glycol Ethers Emissions (ton/yr) | Methanol Emissions (ton/yr) |
| Paint Booth 1 Titan Blue/Green | 11.2 | 0.0595 | 11.00% | 1.00% | 0.00% | 0.00% | 0.00% | 6.00% | 0.00% | 3.21E-01 | 2.92E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-01 | 0.00E+00 |
| Paint Booth 4 Titan Blue/Green Aerosol Touch Up | 6.4 | 0.0017 | 11.00% | 1.00% | 0.00% | 0.00% | 0.00% | 6.00% | 0.00% | 5.13E-03 | 4.67E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.80E-03 | 0.00E+00 |
| "Worst Case" Individual HAP Total HAPs | | | | | | | | | | 3.21E-01 | 2.92E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-01 | 0.00E+00 |

METHODOLOGY

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

**Appendix A: Emissions Calculations
Welding Operations**

**Company Name: Master Power Transmission
Address City IN Zip: 3300 East Tenth Street, Columbus, Indiana 47201
Permit Number: EX 005-30959-00092
Reviewer: Sarah Germann
Date: 10/17/2011**

| | Total No. of Stations | Total Max. Electrode Consumption (lbs/hr) | EMISSION FACTORS * (lb pollutant / lb electrode) | | | | | Potential to Emit (lb/hr) | | | | | |
|------------------------------------|-----------------------|---|--|-----------|----------|----------|----------|---------------------------|-----------|----------|----------|----------|------------|
| | | | PM/PM10/PM2.5 | Manganese | Nickel | Cobalt | Chromium | PM/PM10/P M2.5 | Manganese | Nickel | Cobalt | Chromium | TOTAL HAPS |
| Shielded Metal Arc Welding (E7018) | 2 | 37.56 | 1.84E-02 | 1.03E-03 | 2.00E-06 | 1.00E-06 | 6.00E-06 | 0.69 | 3.87E-02 | 7.51E-05 | 3.76E-05 | 2.25E-04 | 3.90E-02 |

| Potential to Emit (tons/year) | | | | | |
|-------------------------------|-----------|--------|--------|----------|------------|
| PM/PM10/P M2.5 | Manganese | Nickel | Cobalt | Chromium | TOTAL HAPS |
| 3.03 | 0.17 | 0.00 | 0.00 | 0.00 | 0.17 |

METHODOLGY

Emission Factors from AP 42 (January 1995), Chapter 12.19, Tables 12.19-1 and 12.19-2.
Welding emissions, lb/hr: (max. lbs of electrode used/hr)(emission factor, lb. pollutant/lb. of electrode used)
Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/day x 1 ton/2,000 lbs.

**Appendix A: Emissions Calculations
Cast Iron Parts Machining Operations**

**Company Name: Master Power Transmission
Address City IN Zip: 3300 East Tenth Street, Columbus, Indiana 47201
Permit Number: EX 005-30959-00092
Reviewer: Sarah Germann
Date: 10/17/2011**

| Process | Product Used | Emission Factor (lbs VOC/gal) ⁽¹⁾ | Maximum Usage (gal/yr) | Maximum Usage (gal/hr) | PTE of VOC (lbs/hr) | PTE of VOC (tons/yr) |
|---------------------------|-------------------|--|------------------------|------------------------|---------------------|----------------------|
| Coolant Use for Machining | Fuchs Ecocool 207 | 0.96 | 6700 | 0.7648 | 0.73 | 3.22 |

Notes

(1) Emission factor of 0.9606 lbs VOC/gallon was taken from previous air emission inventory, as described in MSOP No. M005-23566-00092

| Process | Number of Units | Maximum Throughput Process per Unit (lbs/hour) | PM Emission Factor (lb/ton) | PM10 Emission Factor | HAPs Emission Factor | PM Emissions (tons/year) | PM10 Emissions (tons/year) | Total HAPs Emissions (tons/year) |
|--|-----------------|--|-----------------------------|----------------------|----------------------|--------------------------|----------------------------|----------------------------------|
| Lathes | 4 | 200 | 0.01 | 0.0045 | 0.01 | 0.0175 | 0.0079 | 0.0175 |
| Machining Centers ⁽¹⁾ | 4 | 0.375 | 0.0005 | 0.0005 | 0.0005 | 0.0033 | 0.0033 | 0.0033 |
| Drills | 22 | 800 | 0.01 | 0.0045 | 0.01 | 0.3854 | 0.1734 | 0.3854 |
| Grinders | 1 | 800 | 0.01 | 0.0045 | 0.01 | 0.0175 | 0.0079 | 0.0175 |
| Ban Saw | 1 | 800 | 0.01 | 0.0045 | 0.01 | 0.0175 | 0.0079 | 0.0175 |
| Chuckers | 10 | 800 | 0.01 | 0.0045 | 0.01 | 0.1752 | 0.0788 | 0.1752 |
| Milling Machines | 4 | 800 | 0.01 | 0.0045 | 0.01 | 0.0701 | 0.0315 | 0.0701 |
| Total Unlimited Potential to Emit (tons/year) | | | | | | 0.6866 | 0.3108 | 0.6866 |

| Process | Total HAPs Emissions (tons/year) | Individual HAPs Emissions (tons/year) | | | | | | | | Worst Case Individual HAP |
|----------------------------------|----------------------------------|---------------------------------------|----------------------|---------------------|------------------|----------------|----------------------|-------------------|----------------|---------------------------|
| | | Aluminum (0.1 wt %) | Antimony (0.95 wt %) | Chromium (0.9 wt %) | Copper (94 wt %) | Lead (25 wt %) | Manganese (1.1 wt %) | Nickel (1.5 wt %) | Zinc (12 wt %) | |
| Lathes | 0.0175 | 1.75E-06 | 1.66E-04 | 1.58E-04 | 1.65E-02 | 4.38E-03 | 1.93E-04 | 2.63E-04 | 2.10E-03 | 1.65E-02 |
| Machining Centers ⁽¹⁾ | 0.0033 | 3.29E-07 | 3.12E-05 | 2.96E-05 | 3.09E-03 | 8.21E-04 | 3.61E-05 | 4.93E-05 | 3.94E-04 | 3.09E-03 |
| Drills | 0.3854 | 3.85E-05 | 3.66E-03 | 3.47E-03 | 3.62E-01 | 9.64E-02 | 4.24E-03 | 5.78E-03 | 4.63E-02 | 3.62E-01 |
| Grinders | 0.0175 | 1.75E-06 | 1.66E-04 | 1.58E-04 | 1.65E-02 | 4.38E-03 | 1.93E-04 | 2.63E-04 | 2.10E-03 | 1.65E-02 |
| Ban Saw | 0.0175 | 1.75E-06 | 1.66E-04 | 1.58E-04 | 1.65E-02 | 4.38E-03 | 1.93E-04 | 2.63E-04 | 2.10E-03 | 1.65E-02 |
| Chuckers | 0.1752 | 1.75E-05 | 1.66E-03 | 1.58E-03 | 1.65E-01 | 4.38E-02 | 1.93E-03 | 2.63E-03 | 2.10E-02 | 1.65E-01 |
| Milling Machines | 0.0701 | 7.01E-06 | 6.66E-04 | 6.31E-04 | 6.59E-02 | 1.75E-02 | 7.71E-04 | 1.05E-03 | 8.41E-03 | 6.59E-02 |
| | 0.6866 | | | | | | | | | 3.62E-01 Copper |

Notes

(1) The machines that utilize a coolant to capture particulate emissions do not generate any criteria pollutants or HAPS emissions. These machines are not included in the above emission calculations.

Estimation Method: Mass Balance & Emission Factors

Source of Emissions: Mass Balance & US EPA FIRE Database 6.23

Pollutants Generated By Process: PM, PM10, HAPs

Pollution Control Equipment: None

HAPs weight percentages from MSDS sheet for the cast iron material processed

METHODOLOGY

Lathes, Drills, Grinders, Ban Saw, Chuckers, Milling Machines (3-04-003-60)

Quantity of PM emitted = (Maximum Capacity)(Emission Factor)(1 ton/2,000 pounds)
(1 ton/2,000 pounds)(8,760 hours/year)(Number of Units)

Quantity of PM10 emitted = (Maximum Capacity)(Emission Factor)(1 ton/2,000 pounds)
(1 ton/2,000 pounds)(8,760 hours/year)(Number of Units)

Quantity of HAP emitted = (Maximum Capacity)(Emission Factor)(1 ton/2,000 pounds)
(1 ton/2,000 pounds)(8,760 hours/year)(Number of Units)(Percent HAP)

(1) Machining Centers -- Emission Factor is by Percent Material Loss

Quantity of PM emitted = (Maximum Capacity)(Percent Material Loss)(1 ton/2,000 pounds)
(8,760 hours/year)(Number of Machining Centers)

Quantity of PM10 emitted = (Maximum Capacity)(Percent Material Loss)(1 ton/2,000 pounds)
(8,760 hours/year)(Number of Machining Centers)

Quantity of HAP emitted = (Maximum Capacity)(Percent Material Loss)(1 ton/2,000 pounds)
(8,760 hours/year)(Number of Machining Centers)(Percent HAP)

**Appendix A: Emissions Calculations
Parts Cleaning Process**

**Company Name: Master Power Transmission
Address City IN Zip: 3300 East Tenth Street, Columbus, Indiana 47201
Permit Number: EX 005-30959-00092
Reviewer: Sarah Germann
Date: 10/17/2011**

| Unit | Solvent Used ⁽¹⁾ | Density (lbs/gal) | Weight % VOC ⁽²⁾ | Maximum Usage (gal/hr) | Maximum Usage (gal/day) | PTE of VOC (lbs/day) | PTE of VOC (tons/yr) |
|--|-----------------------------|-------------------|-----------------------------|------------------------|-------------------------|----------------------|----------------------|
| Multiple detergent-based Parts Washers | Fuchs Renoclean SGC 62 | 8.57 | 10% | 0.92 | 22.08 | 18.92 | 3.45 |
| Multiple Safety-Kleen Parts Washers | Fuchs Renoclean SGC 62 | 8.57 | 10% | 0.12 | 2.88 | 2.47 | 0.45 |
| Total | | | | | | | 3.90 |

Notes

(1) These solvents do not contain any regulated HAPs.

(2) Weight % of Triethanolamine is listed as <10%; using 10% VOC as worst case

METHODOLOGY

Density (lb/gal) = Specific Gravity (1.028 at 15.6 C, provided on MSDS) x Density of Water at 15.6 C (8.337 lb/gal)

Maximum Usage (gal/day) = Maximum Usage (gal/hr) * 24 hr/day

PTE of VOC (lbs/day) = Density (lbs/gal) x Weight % VOC x Max. Usage (gal/day)

PTE of VOC (tons/yr) = Density (lbs/gal) x Weight % VOC x Max. Usage (gal/day) x 365 days/yr x 1 ton/2000 lbs

Rust Preventive

Maximum Capacity of Rust Preventive = 0.62 gallons per hour of Fuchs Rust Preventive volatiles, and the quantity of VOC emitted is zero.

**Appendix A: Emissions Calculations
Packaging Operations**

**Company Name: Master Power Transmission
Address City IN Zip: 3300 East Tenth Street, Columbus, Indiana 47201
Permit Number: EX 005-30959-00092
Reviewer: Sarah Germann
Date: 10/17/2011**

| Process (Five Instapak Spray Stations) | Maximum Capacity (gal/hr) | Density (lb/gal) | % VOC | VOC Emissions (tons/yr) | % HAP | HAPs Emissions (tons/yr) |
|---|----------------------------------|-------------------------|--------------|--------------------------------|--------------|---------------------------------|
| Instapak Component "A" | 0.025 | 10.30 | 45% | 0.5075 | 45% | 0.5075 |
| Instapak Component "B" | 0.025 | - | - | - | - | - |
| Instapak Port Cleaner | 0.00045 | 9.4 | 96% | 0.0178 | - | - |
| Total | | | | 0.5253 | | 0.5075 |

Notes

Estimation Method: Mass Balance

Source of Emissions: Material Safety Data Sheets

Pollutants Generated by Process: VOC and HAP (MDI)

Pollution Control Equipment: None

MethodologyInstapak Component "A"

Quantity of VOC emitted = (Maximum Capacity)(percent VOC)(Density)(1 ton/2,000 pounds)(8,760 hours/year)

Quantity of HAP emitted = (Maximum Capacity)(Percent HAP)(Density)(1 ton/2,000 pounds)(8,760 hours/year)

(Note: even though the MDI contained in the applied foam will polymerize, this computation assumes that all MDI is emitted.)

Instapak Component "B"

According to the MSDS supplied by the source, Instapak Component "B" does not contain any HAPS or criteria pollutants.

Instapak Port Cleaner

Quantity of VOC emitted = (Maximum Capacity)(percent VOC)(Density)(1 ton/2,000 pounds)(8,760 hours/year)

**Appendix A: Emissions Calculations
Coolant Recycling**

**Company Name: Master Power Transmission
Address City IN Zip: 3300 East Tenth Street, Columbus, Indiana 47201
Permit Number: EX 005-30959-00092
Reviewer: Sarah Germann
Date: 10/17/2011**

| Process | Maximum Capacity (lbs/hr) | VOC Emission Factor (lbs/ton) | VOC Emissions (tons/yr) |
|-----------------------------|----------------------------------|--------------------------------------|--------------------------------|
| Evaporator 1 & Evaporator 2 | 92 | 3.3 | 0.6649 |

Total 0.6649

Notes

two (2) natural gas fired evaporators, for waste coolant/cutting solution recycling, identified as Evaporators 1 and 2, installed in 2002, each with a burner heat input rating of 0.195 MMBtu per hour, processing up to a total of 92 pounds of waste solution per hour, each exhausting to stack # 5461 and 7713, respectively

Process includes natural gas fired units at 0.3 MMBtu/hr each (see "Natural Gas & Propane Combustion" calculations)

Estimation Method: Emission Factors

Pollution Control Equipment: None

Source of Emissions: US EPA FIRE Database 6.23

Methodology

Evaporators 1 & 2 (4-90-002-02)

Quantity of VOC emitted = (Maximum Capacity)(Emission Factor)(1 ton/2,000 pounds)(1 ton/2,000 pounds)(8,760 hours/year)



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: Stephen Knott
Master Power Transmission
3300 E 10th St
Columbus, IN 47201

DATE: November 18, 2011

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

SUBJECT: Final Decision
Exemption - Transition from MSOP
005 - 30959 - 00092

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:
Ryan Roberson, VP Mfg
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

| | | | | |
|----------------------------|---|---|---|--|
| IDEM Staff | LPOGOST 11/17/2011 Master Power Transmission 005 - 30959 - 00092 /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 | | Stephen Knott Master Power Transmission 3300 E 10th St Columbus IN 47201 (Source CAATS) Via confirmed delivery | | | | | | | | | |
| 2 | | Ryan Roberson VP Mfg Master Power Transmission 3300 E 10th St Columbus 47201 (RO CAATS) | | | | | | | | | |
| 3 | | Columbus City Council and Mayors Office 123 Washington St Columbus IN 47201 (Local Official) | | | | | | | | | |
| 4 | | Mr. Elbert Held 734 Hutchins Columbus IN 47201 (Affected Party) | | | | | | | | | |
| 5 | | Mr. Boris Ladwig 333 2nd St Columbus IN 47201 (Affected Party) | | | | | | | | | |
| 6 | | Eileen Booher 1316 Chestnut St. Columbus IN 47201 (Affected Party) | | | | | | | | | |
| 7 | | Mr. Lcnfc 1039 Sycamore St Columbus IN 47201 (Affected Party) | | | | | | | | | |
| 8 | | Bartholomew County Commissioners 440 Third Street Columbus IN 47202 (Local Official) | | | | | | | | | |
| 9 | | Mr. Jean Terpstra 3210 Grove Pkwy Columbus IN 47203 (Affected Party) | | | | | | | | | |
| 10 | | August Tindell 31 Reo Street Columbus IN 47201 (Affected Party) | | | | | | | | | |
| 11 | | Terry Lowe 1039 W Jeffersons St Apt 3 Franklin IN 46131 (Affected Party) | | | | | | | | | |
| 12 | | Mr. Charles Mitch 3210 Grove Parkway Columbus IN 47203 (Affected Party) | | | | | | | | | |
| 13 | | Bartholomew County Health Department 440 3rd Street, Suite 303 Columbus IN 47201 (Health Department) | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |

| | | | |
|---|--|--|--|
| Total number of pieces Listed by Sender | Total number of Pieces Received at Post Office | Postmaster, Per (Name of Receiving employee) | The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels. |
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