



# 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](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: July 25, 2012

RE: Master Power Transmission / 005-32019-00092

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



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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July 25, 2012

Steven R. Knott, Human & Technical Resources Manager  
Master Power Transmission  
3300 10th Street  
Columbus, IN 47201

Re: Exempt Construction and Operation Status,  
EX 005-32019-00092

Dear Mr. Knott:

The application from Master Power Transmission, received on June 15, 2012, 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) 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;

The process involves spraying polymerizing foam (containing MDI) into an enclosed package that contains the finished metal product to prevent product damage during shipping.

- (l) nine (9) propane fuel fired lift trucks;
- (j) twenty-three (23) miscellaneous natural gas fired space heaters, each with a heat input rating of 0.175 MMBtu per hour;
- (k) forty-seven (47) miscellaneous natural gas fired space heaters, each with a heat input rating of 0.052 MMBtu per hour;
- (l) one (1) hot water heater, with a heat input rating of 0.199 MMBtu per hour;
- (m) two (2) hot water heaters, each with a heat input of 0.040 MMBtu per hour.
- (n) Three (3) Pacemaker natural gas fired furnaces each with a heat input rating of 0.75 MMBtu per hour.
- (o) One (1) Companion Draw natural gas fired furnace with a heat input of 0.60 MMBtu per hour.
- (p) One (1) Taylor and Gaskin natural gas fired washer with a heat input of 1.5 MMBtu per hour.
- (q) One (1) size 1500 Retort natural gas fired endothermic generator with a heat input of 0.526 MMBtu per hour.
- (r) One (1) size 1500 electric and natural gas fired endothermic generator with a heat input of 0.33 MMBtu per hour.
- (s) One (1) size 3000 natural gas fired atmosphere endothermic generator with a heat input of 1.145 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:

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

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, 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. 005-32019-00092 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.

This exemption supersedes EX 005-30959-00092, issued on November 18, 2011.

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](http://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 Deborah Cole, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, at 317-234-5377 or at 1-800-451-6027 (ext. 4-5377).

Sincerely,



Iryn Calilung, Section Chief  
Permits Branch  
Office of Air Quality

IC/dac

Attachments: Technical Support Document  
Appendix A - Emission 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 an Exemption

<b>Source Description and Location</b>
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<b>Source Name:</b>	<b>Master Power Transmission</b>
<b>Source Location:</b>	<b>3300 East Tenth Street, Columbus, IN 47201</b>
<b>County:</b>	<b>Bartholomew</b>
<b>SIC Code:</b>	<b>3566 (Speed Changers, Industrial High-Speed Drives, and Gears)</b>
<b>Exemption No.:</b>	<b>EX 005-32019-00092</b>
<b>Permit Reviewer:</b>	<b>Deborah Cole</b>

On June 15, 2012, the Office of Air Quality (OAQ) received an application from Master Power Transmission related to the removal of one (1) natural gas fired endothermic heat treat oven, identified as T900 and one (1) Ipsen generator, identified as 0366 with a total heat input rating of .23 MMBtu per hour and the addition of eight (8) natural gas fired heating units with a total heat input rating of 6.35 MMBtu per hour. With these changes, the source is maintaining its Exemption status, however a new Exemption will be issued and this Exemption will supersede EX No.: 005-30959-00092, issued on November 18, 2011.

<b>Existing Approvals</b>
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The source has been operating under Exemption No. 005-30959-00092, issued on November 18, 2011.

The source has removed the following emission unit, listed in EX055-30959-00092, issued November 18, 2011:

- (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;

<b>County Attainment Status</b>
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The source is located in Bartholomew County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Not designated.
<sup>1</sup> 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 <sub>2.5</sub> .	

- (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 NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (b) **PM<sub>2.5</sub>**  
Bartholomew County has been classified as attainment for PM<sub>2.5</sub>. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM<sub>2.5</sub> 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<sub>2.5</sub> significant level at ten (10) tons per year. This rule became effective, June 28, 2011. Therefore, direct PM<sub>2.5</sub> and SO<sub>2</sub> 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 June 15, 2012, relating to the removal of one (1) natural gas-fired emission unit and the addition of eight (8) natural gas fired heating units.

The stationary electrical motor gearbox manufacturing plant consists of the following existing emission units:

- (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) 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;
- (i) nine (9) propane fuel fired lift trucks;
- (j) twenty-three (23) miscellaneous natural gas fired space heaters, each with a heat input rating of 0.175 MMBtu per hour;
- (k) forty-seven (47) miscellaneous natural gas fired space heaters, each with a heat input rating of 0.052 MMBtu per hour;
- (l) one (1) hot water heater, with a heat input rating of 0.199 MMBtu per hour;
- (m) two (2) hot water heaters, each with a heat input of 0.040 MMBtu per hour.

The following is a list of the new emission units:

- (n) Three (3) Pacemaker natural gas fired furnaces each with a heat input rating of 0.75 MMBtu per hour.
- (o) One (1) Companion Draw natural gas fired furnace with a heat input of 0.60 MMBtu per hour.
- (p) One (1) Taylor and Gaskin natural gas fired washer with a heat input of 1.5 MMBtu per hour.
- (q) One (1) size 1500 Retort natural gas fired endothermic generator with a heat input of 0.526 MMBtu per hour.
- (r) One (1) size 1500 electric and natural gas fired endothermic generator with a heat input of 0.33 MMBtu per hour.
- (s) One (1) size 3000 natural gas fired atmosphere endothermic generator with a heat input of 1.145 MMBtu per hour.

<b>Enforcement Issues</b>
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There are no pending enforcement actions related to this source.

<b>Emission Calculations</b>
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See Appendix A of this TSD for detailed emission calculations.

**Permit Level Determination – Exemption**

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 <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e**	Total HAPs	Worst Single HAP
Miscellaneous Natural Gas and Propane Combustion	0.11	0.45	0.45	0.04	5.60	0.33	2.41	7,171	0.11	0.1063 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	-	-	-	-
<b>Total PTE of Entire Source</b>	<b>4.53</b>	<b>4.50</b>	<b>4.50</b>	<b>0.04</b>	<b>5.60</b>	<b>9.57</b>	<b>2.41</b>	<b>7,171</b>	<b>2.01</b>	<b>0.51 MDI</b>
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<sub>2</sub>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 CO<sub>2</sub>

### **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 three (3) natural gas fired generators, identified as the size 1500 retort generator, the size 1500 electric and natural gas generator and the size 3000 atmosphere generator are not subject to 40 CFR Part 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines) because these generators are endothermic generators and do not meet the definition of stationary compression ignition (CI) internal combustion engine.
- (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 three (3) natural gas fired generators, identified as the size 1500 retort generator, the size 1500 electric and natural gas generator and the size 3000 atmosphere generator are not subject to 40 CFR Part 63, Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), because these generators are endothermic generators and do not meet the definition of a stationary reciprocating internal combustion engine (RICE).
- (d) 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.
- (e) 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.
- (f) 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.
- (g) 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)

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.

<b>State Rule Applicability Determination</b>
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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 including 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, chuckers 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 generators 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 June 15, 2012.

The operation of this source shall be subject to the conditions of the attached Exemption No. 005-32019-00092. The staff recommends to the Commissioner that this Exemption be approved.

### IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Deborah Cole 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) 234-5377 or toll free at 1-800-451-6027, extension 4-5377.
- (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](http://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 005-32019-00092  
Reviewer: Deborah Cole**

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	0.11	0.45	0.45	0.04	5.60	0.33	2.41	7,171	0.11	0.1063 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) <sup>(1)</sup>	-	-	-	-	-	0.66	-	-	-	-
<b>Total Potential to Emit (tons/year):</b>	<b>4.53</b>	<b>4.50</b>	<b>4.50</b>	<b>0.04</b>	<b>5.60</b>	<b>9.57</b>	<b>2.41</b>	<b>7,171</b>	<b>2.01</b>	<b>0.5100 MDI</b>
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 CO<sub>2</sub>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.

Notes:

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

**Appendix A: Emission Calculation:  
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 005-32019-00092  
Reviewer: Deborah Cole

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
<b>Natural Gas Firing</b>																	
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
Natural Gas Fired Furnaces	0.750	3	19.71	1.9	7.6	7.6	0.6	94	5.5	40	0.02	0.07	0.07	0.01	0.93	0.05	0.39
Draw Furnace	0.600	1	5.26	1.9	7.6	7.6	0.6	94	5.5	40	0.00	0.02	0.02	0.00	0.25	0.01	0.11
Natural Gas Fired Washer	1.500	1	13.14	1.9	7.6	7.6	0.6	94	5.5	40	0.01	0.05	0.05	0.00	0.62	0.04	0.26
Retort Generator	0.526	1	4.61	1.9	7.6	7.6	0.6	94	5.5	40	0.00	0.02	0.02	0.00	0.22	0.01	0.09
Electric and Gas Generator	0.330	1	2.89	1.9	7.6	7.6	0.6	94	5.5	40	0.00	0.01	0.01	0.00	0.14	0.01	0.06
Atmosphere Generator	1.145	1	10.03	1.9	7.6	7.6	0.6	94	5.5	40	0.01	0.04	0.04	0.00	0.47	0.03	0.20
<b>Propane Firing</b>																	
Propane Lift Trucks			Potential Propane Thruput (10 <sup>3</sup> gallons)/year	0.4	0.4	0.4	0.6 (0.10S)	14	0.5	1.9	0.00	0.00	0.00	0.00	0.04	0.00	0.01
<b>Total Potential to Emit (tons per year):</b>											<b>0.11</b>	<b>0.45</b>	<b>0.45</b>	<b>0.04</b>	<b>5.60</b>	<b>0.33</b>	<b>2.41</b>

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 Calculation:  
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 005-32019-00092  
Reviewer: Deborah Cole**

HAPs - Organics													
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				
				Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
<b>Natural Gas Firing</b>													
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
Natural Gas Fired Furnaces	0.750	3	19.71	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	2.07E-05	1.18E-05	7.39E-04	1.77E-02	3.35E-05
Draw Furnace	0.600	1	5.26	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	5.52E-06	3.15E-06	1.97E-04	4.73E-03	8.94E-06
Natural Gas Fired Washer	1.500	1	13.14	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	1.38E-05	7.88E-06	4.93E-04	1.18E-02	2.23E-05
Retort Generator	0.526	1	4.61	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	4.84E-06	2.76E-06	1.73E-04	4.15E-03	7.83E-06
Electric and Gas Generator	0.330	1	2.89	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	3.04E-06	1.73E-06	1.08E-04	2.60E-03	4.91E-06
Atmosphere Generator	1.145	1	10.03	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	1.05E-05	6.02E-06	3.76E-04	9.03E-03	1.71E-05

HAPs - Metals														
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					
				Lead	Cadmium	Chromium	Manganese	Nickel	Lead	Cadmium	Chromium	Manganese	Nickel	
<b>Natural Gas Firing</b>														
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	
Natural Gas Fired Furnaces	0.750	3	19.71	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	4.93E-06	1.08E-05	1.38E-05	3.74E-06	2.07E-05	
Draw Furnace	0.600	1	5.26	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	1.31E-06	2.89E-06	3.68E-06	9.99E-07	5.52E-06	
Natural Gas Fired Washer	1.500	1	13.14	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	3.29E-06	7.23E-06	9.20E-06	2.50E-06	1.38E-05	
Retort Generator	0.526	1	4.61	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	1.15E-06	2.53E-06	3.23E-06	8.75E-07	4.84E-06	
Electric and Gas Generator	0.330	1	2.89	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	7.23E-07	1.59E-06	2.02E-06	5.49E-07	3.04E-06	
Atmosphere Generator	1.145	1	10.03	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	2.51E-06	5.52E-06	7.02E-06	1.91E-06	1.05E-05	

**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	1.24E-04	7.09E-05	4.43E-03	1.06E-01	2.01E-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	2.95E-05	6.50E-05	8.27E-05	2.25E-05	1.24E-04

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 Calculation:  
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 005-32019-00092  
Reviewer: Deborah Cole

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	
<b>Natural Gas Firing</b>										
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	
Natural Gas Fired Furnaces	0.750	3	19.71	120,000	2.3	2.2	1,183	0.02	0.02	
Draw Furnace	0.600	1	5.26	120,000	2.3	2.2	315	0.01	0.01	
Natural Gas Fired Washer	1.500	1	13.14	120,000	2.3	2.2	788	0.02	0.01	
Retort Generator	0.526	1	4.61	120,000	2.3	2.2	276	0.01	0.01	
Electric and Gas Generator	0.330	1	2.89	120,000	2.3	2.2	173	0.00	0.00	
Atmosphere Generator	1.145	1	10.03	120,000	2.3	2.2	602	0.01	0.01	
<b>Propane Firing</b>										
Propane Lift Trucks			Potential Propane Thruput (10 <sup>3</sup> gallons)/year	6.02	12,500	0.2	0.9	38	0.00	0.00
<b>Total Potential to Emit (tons per year):</b>							<b>7,127</b>	<b>0.14</b>	<b>0.13</b>	

**Summary:**

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2	CH4	N2O
	120,000	2.3	2.2
Potential Emission in tons/yr	7,127	0.14	0.13
Summed Potential Emissions in tons/yr	7,128		
CO2e Total in tons/yr	7,171		

**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 005-32019-00092  
Reviewer: Deborah Cole**

Material	Density (lb/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Maximum number of units/hour <sup>(1)</sup>	Maximum gallons/unit <sup>(2)</sup>	Maximum (gal/hour) <sup>(3)</sup>	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 <sup>(4)</sup>	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%
<b>TOTAL PTE</b>													<b>0.21</b>	<b>5.13</b>	<b>0.94</b>	<b>0.71</b>		

**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 005-32019-00092  
**Permit Reviewer:** Deborah Cole

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
<b>"Worst Case" Individual HAP Total HAPs</b>										<b>3.21E-01</b>	<b>2.92E-02</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>1.75E-01</b>	<b>0.00E+00</b>

**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 005-32019-00092  
Reviewer: Deborah Cole**

	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 005-32019-00092  
Reviewer: Deborah Cole**

Process	Product Used	Emission Factor (lbs VOC/gal) <sup>(1)</sup>	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 <sup>(1)</sup>	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
<b>Total Unlimited Potential to Emit (tons/year)</b>						<b>0.6866</b>	<b>0.3108</b>	<b>0.6866</b>

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	<b>1.65E-02</b>
Machining Centers <sup>(1)</sup>	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	<b>3.09E-03</b>
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	<b>3.62E-01</b>
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	<b>1.65E-02</b>
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	<b>1.65E-02</b>
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	<b>1.65E-01</b>
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	<b>6.59E-02</b>
<b>0.6866</b>										<b>3.62E-01</b>

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 005-32019-00092  
Reviewer: Deborah Cole**

Unit	Solvent Used <sup>(1)</sup>	Density (lbs/gal)	Weight % VOC <sup>(2)</sup>	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
<b>Total</b>							<b>3.90</b>

**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 005-32019-00092  
Reviewer: Deborah Cole**

<b>Process (Five Instapak Spray Stations)</b>	<b>Maximum Capacity (gal/hr)</b>	<b>Density (lb/gal)</b>	<b>% VOC</b>	<b>VOC Emissions (tons/yr)</b>	<b>% HAP</b>	<b>HAPs Emissions (tons/yr)</b>
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

**Methodology**Instapak 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 005-32019-00092  
Reviewer: Deborah Cole**

<b>Process</b>	<b>Maximum Capacity (lbs/hr)</b>	<b>VOC Emission Factor (lbs/ton)</b>	<b>VOC Emissions (tons/yr)</b>
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.*

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**Commissioner**

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Toll Free (800) 451-6027  
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## SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Stephen Knott  
Master Power Transmission  
3300 10<sup>th</sup> Street  
Columbus, IN 47201

DATE: July 25, 2012

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

SUBJECT: Final Decision  
Exemption  
005-32019-00092

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 of Manufacturing  
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](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07

# Mail Code 61-53

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1		Stephen Knott Master Power Transmission 3300 10th St Columbus IN 47201 (Source CAATS) via confirmed delivery										
2		Ryan Roberson VP of Mfg Master Power Transmission 3300 10th St Columbus IN 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. Lcnfc 1039 Sycamore St Columbus IN 47201 (Affected Party)										
6		Bartholomew County Commissioners 440 Third Street Columbus IN 47202 (Local Official)										
7		Mr. Jean Terpstra 3210 Grove Pkwy Columbus IN 47203 (Affected Party)										
8		August Tindell 31 Reo Street Columbus IN 47201 (Affected Party)										
9		Terry Lowe 1039 W Jeffersons St Apt 3 Franklin IN 46131 (Affected Party)										
10		Mr. Charles Mitch 3210 Grove Parkway Columbus IN 47203 (Affected Party)										
11		Bartholomew County Health Department 440 3rd Street, Suite 303 Columbus IN 47201 (Health Department)										
12												
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<b>10</b>			